

China Harbour Engineering Company Limited

Contract No. HY/2010/02

Hong Kong – Zhuhai – Macao Bridge Hong Kong Boundary Crossing Facilities – Reclamation Works

Monthly EM&A Report for August 2016

[09/2016]

| | Name | Signature |
|-----------------------------------|------------------|------------|
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| Version: | Rev. 0 | Date: | 14 September 2016 |
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Disclaimer

This report is prepared for China Harbour Engineering Company Limited and is given for its sole benefit in relation to and pursuant to Contract No. HY/2010/02 Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities-Reclamation Works and may not be disclosed to, quoted to or relied upon by any person other than China Harbour Engineering Company Limited without our prior written consent. No person (other than China Harbour Engineering Company Limited) into whose possession a copy of this report comes may rely on this report without our express written consent and China Harbour Engineering Company Limited may not rely on it for any purpose other than as described above.

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14 September 2016

By Fax (3698 5999) and By Post

Ove Arup & Partners Chief Resident Engineer's Office 5 Ying Hei Road, Tung Chung, Lantau Hong Kong

Attention: Mr. Paul Appleton

Dear Sir,

Re: Agreement No. CE 48/2011 (EP)

Environmental Project Office for the

HZMB Hong Kong Link Road, HZMB Hong Kong Boundary Crossing Facilities,

and Tuen Mun-Chek Lap Kok Link - Investigation

Contract No. HY/2010/02 - HZMB HKBCF - Reclamation Works

Monthly Environmental Monitoring & Audit Report for August 2016

Reference is made to the Environmental Team's submission of the Monthly Environmental Monitoring & Audit Report for August 2016 certified by the ET Leader (ET's ref.: "60249820/C/RMKY16091401" dated 14 September 2016) and provided to us via e-mail on 14 September 2016.

We are pleased to inform you that we have no adverse comment on the captioned submission. We write to verify the captioned submission in accordance with Condition 5.4 of EP-353/2009/K and Condition 4.4 of EP-354/2009/D (for TM-CLKL Southern Landfall Reclamation only).

As per Condition 1.7 of EPs, please be reminded to keep in view on the site condition, in particular on the integrity of the perimeter silt curtain and the effectiveness of perimeter drainage facilities with your on-going surveillance and monitoring and to further update/notify ENPO and EPD, from time to time and prior to each further removal of other section(s) of the perimeter silt curtains.

Thank you very much for your attention and please feel free to contact the undersigned should you require further information.

Yours faithfully, For and on behalf of

Ramboll Environ Hong Kong Limited

Raymond Dai

Independent Environmental Checker

c.c. HyD Mr. Vico Cheung (By Fax: 3188 6614) HyD Mr. Wai-Ping Lee (By Fax: 3188 6614) AECOM Ms. Echo Leong (By Fax: 2317 7609) CHEC Mr. Lim Kim Chuan (By Fax: 2578 0413)

Internal: DY, YH, JC, ENPO Site

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EXECUTIVE SUMMARY

Contract No. HY/2010/02 – Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities – Reclamation Works (here below, known as "the Contract") mainly comprises reclamation at the northeast of the Hong Kong International Airport of an area of about 130-hectare for the construction of an artificial island for the development of the Hong Kong Boundary Crossing Facilities (HKBCF), and about 19-hectare for the southern landfall of the Tuen Mun - Chek Lap Kok Link (TMCLKL). It is a designated Project and is governed by the current permits for the Project, i.e. the amended Environmental Permits (EPs) issued on 11 April 2016 (EP-353/2009/K) and 13 March 2015 (EP-354/2009/D) (for TMCLKL Southern Landfall Reclamation only).

Ove Arup & Partners Hong Kong Limited (Arup) was appointed by Highways Department (HyD) as the consultants for the design and construction assignment for the Project's reclamation works (i.e. the Engineer for the Contract).

China Harbour Engineering Company Limited (CHEC) was awarded by HyD as the Contractor to undertake the construction work of the Contract.

Ramboll Environ Hong Kong Limited was employed by HyD as the Independent Environmental Checker (IEC) and Environmental Project Office (ENPO) for the Project.

AECOM Asia Co. Ltd. (AECOM) was appointed by CHEC to undertake the role of Environmental Team for the Contract for carrying out the environmental monitoring and audit (EM&A) works.

The construction phase of the Project under the EPs was commenced on 12 March 2012 and will be tentatively completed by early Year 2017. The EM&A programme, including air quality, noise, water quality and dolphin monitoring and environmental site inspections, was commenced on 12 March 2012.

This report documents the findings of EM&A works conducted in the period between 1 and 31 August 2016. As informed by the Contractor, major activities in the reporting period were:-

Marine-base

- Sloping Seawalls
- Rubble Mound Seawall
- Maintenance of silt curtain

Land-base

- Surcharge removal & laying
- Deep Cement Mixing
- Construction of Permanent Seawall
- Maintenance works of Site Office at Works Area WA2
- Maintenance works of Public Works Regional Laboratory at Works Area WA3
- Maintenance of Temporary Marine Access at Works Area WA2

A summary of monitoring and audit activities conducted in the reporting period is listed below:

24-hour Total Suspended Particulates (TSP) monitoring5 sessions1-hour TSP monitoring5 sessionsNoise monitoring4 sessionsImpact water quality monitoring13 sessionsImpact dolphin monitoring2 surveysJoint Environmental site inspection4 sessions

Breaches of Action and Limit Levels for Air Quality

For impact air quality monitoring, no exceedance of 1-Hour TSP or 24-Hour TSP was recorded at all monitoring stations in the reporting month.

Breaches of Action and Limit Levels for Noise

For construction noise monitoring, no exceedance was recorded at all monitoring stations in the reporting month

Breaches of Action and Limit Levels for Water Quality

For impact water quality monitoring, no exceedance was recorded at all monitoring stations in the reporting month. Due to tropical cyclone warning signal no.3 or above was hoisted during the water quality monitoring scheduled on 1 August 2016 was cancelled except the monitoring locations named CSA, CS6, SR10B(N) and SR10A during Mid-Ebb Tide.

Breaches of Action and Limit Levels for Impact Dolphin Monitoring

For dolphin monitoring, one (1) limit level exceedance is recorded. The Investigation is undergoing and investigation results will be reported in quarterly report (June– August 2016)

Complaint, Notification of Summons and Successful Prosecution

No complaint, notification of summons or prosecution was received in the reporting period.

Reporting Change

No reporting change in the reporting month.

Future Key Issues

Key issues to be considered in the coming month included:

- Site runoff should be properly collected and treated prior to discharge;
- Regular review and maintenance of silt curtain systems, drainage systems and desilting facilities;
- Exposed surfaces/soil stockpiles should be properly treated to avoid generation of silty surface run-off during rainstorm;
- Regular review and maintenance of wheel washing facilities provided at all site entrances/exits;
- Conduct regular inspection of various working machineries and vessels within works areas to avoid any dark smoke emission;
- Suppress dust generated from work processes with use of bagged cements, earth movements, excavation activities, exposed surfaces/soil stockpiles and haul road traffic;
- Quieter powered mechanical equipment should be used;
- Provision of proper and effective noise control measures for operating equipment and machinery on-site, such as erection of movable noise barriers or enclosure for noisy plants;
- Closely check and replace the sound insulation materials regularly;
- Better scheduling of construction works to minimize noise nuisance;
- Properly store and label oil drums and chemical containers placed on site:
- Proper chemicals, chemical wastes and wastes management;
- Maintenance works should be carried out within roofed, paved and confined areas:
- Collection and segregation of construction waste and general refuse on land and in the sea should be carried out properly and regularly; and
- Proper protection and regular inspection of existing trees, transplanted/retained trees.
- Control night-time lighting and glare by hooding all lights.
- Regular review and provide maintenance to dust control measures such as sprinkler system.

1 INTRODUCTION

1.1 Background

- 1.1.1 Contract No. HY/2010/02 Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities Reclamation Works (here below, known as "the Contract") mainly comprises reclamation at the northeast of the Hong Kong International Airport of an area of about 130-hectare for the construction of an artificial island for the development of the Hong Kong Boundary Crossing Facilities (HKBCF), and about 19-hectare for the southern landfall of the Tuen Mun Chek Lap Kok Link (TMCLKL).
- 1.1.2 The environmental impact assessment (EIA) reports (Hong Kong Zhuhai Macao Bridge Hong Kong Boundary Crossing Facilities EIA Report (Register No. AEIAR-145/2009) (HKBCFEIA) and Tuen Mun Chek Lap Kok Link EIA Report (Register No. AEIAR-146/2009) (TMCLKLEIA), and their environmental monitoring and audit (EM&A) Manuals (original EM&A Manuals), for the Project were approved by Environmental Protection Department (EPD) in October 2009.
- 1.1.3 EPD subsequently issued the Environmental Permit (EP) for HKBCF in November 2009 (EP-353/2009) and the Variation of Environmental Permit (VEP) in June 2010 (EP-353/2009/A), November 2010 (EP-353/2009/B), November 2011 (EP-353/2009/C), March 2012 (EP-353/2009/D), October 2012 (EP-353/2009/E), April 2013 (EP-353/2009/F), August 2013 (EP-353/2009/G), January 2015 (EP-353/2009/H), July 2015 (EP-353/2009/I), February 2016 (EP-353/2009/J) and April 2016 (EP-353/2009/K). Similarly, EPD issued the Environmental Permit (EP) for TMCLKL in November 2009 (EP-354/2009) and the Variation of Environmental Permit (VEP) in December 2010 (EP-354/2009/A), January 2014 (EP-354/2009/B), December 2014 (EP-354/2009/C) and March 2015 (EP-354/2009/D).
- 1.1.4 The Project is a designated Project and is governed by the current permits for the Project, i.e. the amended EPs issued on 11 April 2016 (EP-353/2009/K) and 13 March 2015 (EP-354/2009/D) (for TMCLKL Southern Landfall Reclamation only).
- 1.1.5 A Contract Specific EM&A Manual, which included all Contract -relation contents from the original EM&A Manuals for the Contract, was issued in May 2012.
- 1.1.6 Ove Arup & Partners Hong Kong Limited (Arup) was appointed by Highways Department (HyD) as the consultants for the design and construction assignment for the Project's reclamation works (i.e. the Engineer for the Contract).
- 1.1.7 China Harbour Engineering Company Limited (CHEC) was awarded by HyD as the Contractor to undertake the construction work of the Contract.
- 1.1.8 Ramboll Environ Hong Kong Limited was employed by HyD as the Independent Environmental Checker (IEC) and Environmental Project Office (ENPO) for the Project.
- 1.1.9 AECOM Asia Co. Ltd. (AECOM) was appointed by CHEC to undertake the role of Environmental Team for the Contract for carrying out the EM&A works.
- 1.1.10 The construction phase of the Project under the EPs was commenced on 12 March 2012 and will be tentatively completed by early Year 2017.
- 1.1.11 According to the Contract Specific EM&A Manual, there is a need of an EM&A programme including air quality, noise, water quality and dolphin monitoring and environmental site inspections. The EM&A programme of the Contract commenced on 12 March 2012.

1.2 Scope of Report

1.2.1 This is the fifty fourth monthly EM&A Report under the Contract No.HY/2010/02 Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities – Reclamation Works. This report presents a summary of the environmental monitoring and audit works, list of activities and mitigation measures proposed by the ET for the Contract in August 2016.

1.3 Contract Organization

1.3.1 The Contract organization structure is shown in Appendix A. The key personnel contact names and numbers are summarized in Table 1.1.

Table 1.1 Contact Information of Key Personnel

| Party | Position | Name | Telephone | Fax |
|---|--|-----------------|-----------|-----------|
| Engineer's Representative (ER) (Ove Arup & Partners Hong Kong Limited) | Chief Resident Engineer | Paul Appleton | 3698 5889 | 2698 5999 |
| IEC / ENPO | Independent Environmental Checker | Raymond Dai | 3465 2888 | 3465 2899 |
| (Ramboll Environ Hong Kong Limited) | Environmental Project Office Leader | Y. H. Hui | 3547 2133 | 3465 2899 |
| Contractor (China Harbour | Environmental Officer | Louie Chan | 3693 2254 | 2578 0413 |
| Engineering Company Limited) | 24-hour Hotline | Alan C.C. Yeung | 9448 0325 | |
| ET (AECOM Asia Company Limited) | ET Leader | Echo Leong | 3922 9280 | 2317 7609 |

1.4 Summary of Construction Works

- 1.4.1 The construction phase of the Project under the EP commenced on 12 March 2012.
- 1.4.2 As informed by the Contractor, details of the major works carried out in this reporting period are listed below:-

Marine-base

- Sloping Seawalls
- Rubble Mound Seawall
- Maintenance of silt curtain

Land-base

- Surcharge removal & laying
- Deep Cement Mixing
- Construction of Permanent Seawall
- Maintenance works of Site Office at Works Area WA2
- Maintenance works of Public Works Regional Laboratory at Works Area WA3
- Maintenance of Temporary Marine Access at Works Area WA2

- 1.4.3 The 3-month rolling construction programme of the Contract is shown in Appendix B.
- 1.4.4 The general layout plan of the Contract site showing the detailed works areas is shown in Figure 1.
- 1.4.5 The environmental mitigation measures implementation schedule are presented in Appendix C.

1.5 Summary of EM&A Programme Requirements

- 1.5.1 The EM&A programme required environmental monitoring for air quality, noise, water quality, marine ecology and environmental site inspections for air quality, noise, water quality, waste management, marine ecology, and landscape and visual impact. The EM&A requirements for each parameter described in the following sections include:-
 - All monitoring parameters;
 - Monitoring schedules for the reporting month and forthcoming month;
 - Action and Limit levels for all environmental parameters;
 - Event / Action Plan;
 - Environmental mitigation measures, as recommended in the Project EIA reports; and
 - Environmental requirement in contract documents.

2 AIR QUALITY MONITORING

2.1 Monitoring Requirements

2.1.1 In accordance with the Contract Specific EM&A Manual, baseline 1-hour and 24-hour Total Suspended Particulates (TSP) levels at 4 air quality monitoring stations were established. Impact 1-hour TSP monitoring was conducted for at least three times every 6 days, while impact 24-hour TSP monitoring was carried out for at least once every 6 days. The Action and Limit level of the air quality monitoring is provided in Appendix D.

2.2 Monitoring Equipment

2.2.1 24-hour TSP air quality monitoring was performed using High Volume Sampler (HVS) located at each designated monitoring station. The HVS meets all the requirements of the Contract Specific EM&A Manual. Portable direct reading dust meters were used to carry out the 1-hour TSP monitoring. Brand and model of the equipment is given in Table 2.1.

Table 2.1 Air Quality Monitoring Equipment

| Equipment | Brand and Model |
|---|--|
| Portable direct reading dust meter (1-hour TSP) | Sibata Digital Dust Monitor (Model No. LD-3 and LD-3B) |
| High Volume Sampler (24-hour TSP) | Tisch Environmental Mass Flow Controlled Total Suspended Particulate (TSP) High Volume Air Sampler (Model No. TE-5170) |

2.3 Monitoring Locations

- 2.3.1 Monitoring locations AMS2 and AMS7 were set up at the proposed locations in accordance with Contract Specific EM&A Manual. For AMS6 (Dragonair/CNAC (Group) Building), permission on setting up and carrying out impact monitoring works was sought, however, access to the premise has not been granted yet on this report issuing date. For monitoring location AMS3 (Ho Yu College), as proposed in the Contract Specific EM&A Manual, approval for carrying out impact monitoring could not be obtained from the principal of the school. Permission on setting up and carrying out impact monitoring works at nearby sensitive receivers, like Caribbean Coast and Coastal Skyline, was also sought. However, approvals for carrying out impact monitoring works within their premises were not obtained. Impact air quality monitoring was conducted at site boundary of the site office area in Works Area WA2 (AMS3B) respectively. Same baseline and Action Level for air quality, as derived from the baseline monitoring data recorded at Ho Yu College, was adopted for this alternative air quality location.
- 2.3.2 It was observed that a tree near AMS3B may affect the wind flow around the HVS located at AMS3B. With no further comment received from IEC, the HVS at AMS3B has been relocated on 8 September 2014 to slightly more than 2 meters separation from it, measured horizontally. Same baseline and Action Level for air quality, as derived from the baseline monitoring data recorded at Ho Yu College, was adopted for this alternative air quality location.
- 2.3.3 Reference is made to ET's proposal of the omission of air monitoring station (AMS 6) dated on 1 November 2012 and EPD's letter dated on 19 November 2012 regarding the conditional approval of the proposed omission of air monitoring station (AMS 6) for Contract No. HY/2010/02. The aforesaid omission of Monitoring Station AMS6 is effective since 19 November 2012.
- 2.3.4 The impact air quality monitoring station AMS7A (Chu Kong Air-Sea Union Transportation Company Limited) has been relocated to AMS7 (Hong Kong SkyCity Marriott Hotel) on 30 December 2015. The impact air quality monitoring was conducted at AMS7 (Hong Kong SkyCity Marriott Hotel) since January 2016, action Level for air quality, as derived from the baseline monitoring data recorded at Hong Kong SkyCity Marriott Hotel has been adopted for this air quality monitoring location.



Contract No. HY/2010/02 Hong Kong-Zhuhai-Macao Bridge

Hong Kong Boundary Crossing Facilities – Reclamation Works Monthly EM&A Report for August 2016
2.3.5 Figure 2 shows the locations of monitoring stations. Table 2.2 describes the details of the monitoring stations.

Table 2.2 Locations of Impact Air Quality Monitoring Stations

| Monitoring Station | Location | Description |
|--------------------|--|--------------------------------------|
| AMS2 | Tung Chung Development Pier | Rooftop of the premise |
| AMS3B | Site Boundary of Site Office Area at Works Area WA2 | On ground at the area boundary |
| AMS6* | Dragonair/CNAC (Group) Building | On ground at boundary of the premise |
| AMS7 | Hong Kong SkyCity Marriott Hotel | On ground at boundary of the premise |

^{*}Remarks: Reference is made to EPD conditional approval of the omission of air monitoring station (AMS 6) for the Contract. The omission will be effective on 19 November 2012.

2.4 Monitoring Parameters, Frequency and Duration

2.4.1 Table 2.3 summarizes the monitoring parameters, frequency and duration of impact TSP monitoring.

Table 2.3 Air Quality Monitoring Parameters, Frequency and Duration

| Parameter | Frequency and Duration |
|-------------|---|
| 1-hour TSP | Three times every 6 days while the highest dust impact was expected |
| 24-hour TSP | Once every 6 days |

2.5 Monitoring Methodology

2.5.1 24-hour TSP Monitoring

- (a) The HVS was installed in the vicinity of the air sensitive receivers. The following criteria were considered in the installation of the HVS.
 - A horizontal platform with appropriate support to secure the sampler against gusty wind was provided.
 - (ii) No two samplers should be placed less than 2 meters apart.
 - (iii) The distance between the HVS and any obstacles, such as buildings, was at least twice the height that the obstacle protrudes above the HVS.
 - (iv) A minimum of 2 meters separation from walls, parapets and penthouse for rooftop sampler.
 - (v) A minimum of 2 meters separation from any supporting structure, measured horizontally is required.
 - (vi) No furnace or incinerator flues nearby.
 - (vii) Airflow around the sampler was unrestricted.
 - (viii) Permission was obtained to set up the samplers and access to the monitoring stations.
 - (ix) A secured supply of electricity was obtained to operate the samplers.
 - (x) The sampler was located more than 20 meters from any dripline.
 - (xi) Any wire fence and gate, required to protect the sampler, did not obstruct the monitoring process.
 - (xii) Flow control accuracy was kept within ±2.5% deviation over 24-hour sampling period.

(b) Preparation of Filter Papers

- (i) Glass fibre filters, G810 were labelled and sufficient filters that were clean and without pinholes were selected.
- (ii) All filters were equilibrated in the conditioning environment for 24 hours before weighing. The conditioning environment temperature was around 25 °C and not variable by more than ±3 °C; the relative humidity (RH) was < 50% and not variable by more than ±5%. A convenient working RH was 40%.

(iii) All filter papers were prepared and analysed by ALS Technichem (HK) Pty Ltd., which is a HOKLAS accredited laboratory and has comprehensive quality assurance and quality control programmes.

(c) Field Monitoring

- (i) The power supply was checked to ensure the HVS works properly.
- (ii) The filter holder and the area surrounding the filter were cleaned.
- (iii) The filter holder was removed by loosening the four bolts and a new filter, with stamped number upward, on a supporting screen was aligned carefully.
- (iv) The filter was properly aligned on the screen so that the gasket formed an airtight seal on the outer edges of the filter.
- (v) The swing bolts were fastened to hold the filter holder down to the frame. The pressure applied was sufficient to avoid air leakage at the edges.
- (vi) Then the shelter lid was closed and was secured with the aluminum strip.
- (vii) The HVS was warmed-up for about 5 minutes to establish run-temperature conditions.
- (viii) A new flow rate record sheet was set into the flow recorder.
- On site temperature and atmospheric pressure readings were taken and the flow rate of the HVS was checked and adjusted at around 1.1 m³/min, and complied with the range specified in the updated EM&A Manual (i.e. 0.6-1.7 m³/min).
- (x) The programmable digital timer was set for a sampling period of 24 hrs, and the starting time, weather condition and the filter number were recorded.
- (xi) The initial elapsed time was recorded.
- (xii) At the end of sampling, on site temperature and atmospheric pressure readings were taken and the final flow rate of the HVS was checked and recorded.
- (xiii) The final elapsed time was recorded.
- (xiv) The sampled filter was removed carefully and folded in half length so that only surfaces with collected particulate matter were in contact.
- (xv) It was then placed in a clean plastic envelope and sealed.
- (xvi) All monitoring information was recorded on a standard data sheet.
- (xvii) Filters were then sent to ALS Technichem (HK) Pty Ltd. for analysis.

(d) Maintenance and Calibration

- (i) The HVS and its accessories were maintained in good working condition, such as replacing motor brushes routinely and checking electrical wiring to ensure a continuous power supply.
- (ii) 5-point calibration of the HVS was conducted using TE-5025A Calibration Kit prior to the commencement of baseline monitoring. Bi-monthly 5-point calibration of the HVS will be carried out during impact monitoring.
- (iii) Calibration certificate of the HVSs are provided in Appendix E.

2.5.2 1-hour TSP Monitoring

(a) Measuring Procedures

The measuring procedures of the 1-hour dust meter were in accordance with the Manufacturer's Instruction Manual as follows:-

- (i) Turn the power on.
- (ii) Close the air collecting opening cover.
- (iii) Push the "TIME SETTING" switch to [BG].
- (iv) Push "START/STOP" switch to perform background measurement for 6 seconds.
- (v) Turn the knob at SENSI ADJ position to insert the light scattering plate.
- (vi) Leave the equipment for 1 minute upon "SPAN CHECK" is indicated in the display.
- (vii) Push "START/STOP" switch to perform automatic sensitivity adjustment. This measurement takes 1 minute.
- (viii) Pull out the knob and return it to MEASURE position.
- (ix) Push the "TIME SETTING" switch the time set in the display to 3 hours.
- (x) Lower down the air collection opening cover.
- (xi) Push "START/STOP" switch to start measurement.

- (b) Maintenance and Calibration
 - (i) The 1-hour TSP meter was calibrated at 1-year intervals against a continuous particulate TEOM Monitor, Series 1400ab. Calibration certificates of the Laser Dust Monitors are provided in Appendix E.
 - (ii) 1-hour validation checking of the TSP meter against HVS is carried out on half-year basis at the air quality monitoring locations.

2.6 Monitoring Schedule for the Reporting Month

- 2.6.1 The schedule for air quality monitoring in August 2016 is provided in Appendix F.
- 2.6.2 24-hour TSP monitoring at Station AMS2 Tung Chung Development Pier was rescheduled from 4 Aug 2016 to 5 Aug 2016 due to electricity failure.

2.7 Results and Observations

2.7.1 The monitoring results for 1-hour TSP and 24-hour TSP are summarized in Table 2.4 and 2.5 respectively. Detailed impact air quality monitoring results are presented in Appendix G.

Table 2.4 Summary of 1-hour TSP Monitoring Results in the Reporting Period

| | Average (μg/m³) | Range (μg/m³) | Action Level (μg/m³) | Limit Level (μg/m³) |
|-------|-----------------|---------------|-------------------------|------------------------|
| AMS2 | 71 | 65-75 | 374 | 500 |
| AMS3B | 70 | 67-76 | 368 | 500 |
| AMS7 | 71 | 64-76 | 370 | 500 |

Table 2.5 Summary of 24-hour TSP Monitoring Results in the Reporting Period

| | Average (μg/m³) | Range (μg/m³) | Action Level (μg/m³) | Limit Level (μg/m³) |
|-------|-----------------|---------------|-------------------------|------------------------|
| AMS2 | 28 | 19-39 | 176 | 260 |
| AMS3B | 17 | 10-31 | 167 | 260 |
| AMS7 | 33 | 21-47 | 183 | 260 |

- 2.7.2 The event action plan is annexed in Appendix L.
- 2.7.3 Meteorological information collected from the wind station during the monitoring periods on the monitoring dates, as shown in Figure 2, including wind speed and wind direction, is annexed in Appendix H.

3 NOISE MONITORING

3.1 Monitoring Requirements

3.1.1 In accordance with the Contract Specific EM&A Manual, impact noise monitoring was conducted for at least once per week during the construction phase of the Contract. The Action and Limit level of the noise monitoring is provided in Appendix D.

3.2 Monitoring Equipment

3.2.1 Noise monitoring was performed using sound level meter at each designated monitoring station. The sound level meters deployed comply with the International Electrotechnical Commission Publications (IEC) 651:1979 (Type 1) and 804:1985 (Type 1) specifications. Acoustic calibrator was deployed to check the sound level meters at a known sound pressure level. Brand and model of the equipment is given in Table 3.1.

Table 3.1 Noise Monitoring Equipment

| Equipment | Brand and Model |
|------------------------------|-----------------------|
| Integrated Sound Level Meter | Rion NL-31 & B&K2238 |
| Acoustic Calibrator | Rion NC-73 & B&K 4231 |

3.3 Monitoring Locations

- 3.3.1 Monitoring locations NMS2 was set up at the proposed locations in accordance with Contract Specific EM&A Manual. However, for monitoring location NMS3 (Ho Yu College), as proposed in the Contract Specific EM&A Manual, approval for carrying out impact monitoring could not be obtained from the principal of the school. Permission on setting up and carrying out impact monitoring works at nearby sensitive receivers, like Caribbean Coast and Coastal Skyline, was also sought. However, approvals for carrying out impact monitoring works within their premises were not obtained. Impact noise monitoring was conducted at site boundary of the site office area in Works Area WA2 (NMS3B) respectively. Same baseline noise level (as derived from the baseline monitoring data recorded at Ho Yu College) and Limit Level were adopted for this alternative noise monitoring location.
- 3.3.2 Figure 2 shows the locations of the monitoring stations. Table 3.2 describes the details of the monitoring stations.

Table 3.2 Locations of Impact Noise Monitoring Stations

| Monitoring Station | Location | Description |
|--------------------|--|--|
| NMS2 | Seaview Crescent Tower 1 | Free-field on the rooftop of the premise |
| NMS3B | Site Boundary of Site Office Area at Works Area WA2 | Free-field on ground at the area boundary. |

3.4 Monitoring Parameters, Frequency and Duration

3.4.1 Table 3.3 summarizes the monitoring parameters, frequency and duration of impact noise monitoring.

Table 3.3 Noise Monitoring Parameters, Frequency and Duration

| Parameter | Frequency and Duration |
|---|------------------------|
| 30-mins measurement at each monitoring station between 0700 and 1900 on normal weekdays (Monday to Saturday). L_{eq} , L_{10} and L_{90} would be recorded. | At least once per week |

3.5 Monitoring Methodology

3.5.1 Monitoring Procedure

- (a) The sound level meter was set on a tripod at a height of 1.2 m above the ground for free-field measurements at NMS2. A correction of +3 dB(A) shall be made to the free field measurements.
- (b) All measurement at NMS3B were free field measurements in the reporting month at NMS3B. A correction of +3 dB(A) shall be made to the free field measurements.
- (c) The battery condition was checked to ensure the correct functioning of the meter.
- (d) Parameters such as frequency weighting, the time weighting and the measurement time were set as follows:-
 - (i) frequency weighting: A
 - (ii) time weighting: Fast
 - (iii) time measurement: $L_{eq(30-minutes)}$ during non-restricted hours i.e. 07:00-1900 on normal weekdays.
- (e) Prior to and after each noise measurement, the meter was calibrated using the acoustic calibrator for 94dB(A) at 1000 Hz. If the difference in the calibration level before and after measurement was more than 1 dB(A), the measurement would be considered invalid and repeat of noise measurement would be required after re-calibration or repair of the equipment.
- (f) During the monitoring period, the L_{eq} , L_{10} and L_{90} were recorded. In addition, site conditions and noise sources were recorded on a standard record sheet.
- (g) Noise measurement was paused during periods of high intrusive noise (e.g. dog barking, helicopter noise) if possible. Observations were recorded when intrusive noise was unavoidable.
- (h) Noise monitoring was cancelled in the presence of fog, rain, wind with a steady speed exceeding 5m/s, or wind with gusts exceeding 10m/s. The wind speed shall be checked with a portable wind speed meter capable of measuring the wind speed in m/s.

3.5.2 Maintenance and Calibration

- (a) The microphone head of the sound level meter was cleaned with soft cloth at regular intervals.
- (b) The meter and calibrator were sent to the supplier or HOKLAS laboratory to check and calibrate at yearly intervals.
- (c) Calibration certificates of the sound level meters and acoustic calibrators are provided in Appendix E.

3.6 Monitoring Schedule for the Reporting Month

3.6.1 The schedule for construction noise monitoring in August 2016 is provided in Appendix F.

3.7 Monitoring Results

3.7.1 The monitoring results for construction noise are summarized in Table 3.4 and the monitoring data is provided in Appendix I.

Table 3.4 Summary of Construction Noise Monitoring Results in the Reporting Period

| | Average, dB(A), | Range, dB(A), | Limit Level, dB(A), |
|-------|---------------------------|---------------------------|---------------------------|
| | L _{eq (30 mins)} | L _{eq (30 mins)} | L _{eq (30 mins)} |
| NMS2 | 67 | 65-68* | 75 |
| NMS3B | 66 | 62-68* | 70/65^ |

^{*+3}dB(A) Façade correction included

- 3.7.2 No Action or Limit Level Exceedance of construction noise was recorded in the reporting month.
- 3.7.3 Other major noise sources during the noise monitoring included construction activities of the Contract, construction activities by other contracts and nearby traffic noise. Nonetheless, the Contract of Contract No.HY/2010/02 was reminded to continue to properly implement all noise mitigation measures.
- 3.7.4 The event action plan is annexed in Appendix L.

[^] Daytime noise Limit Level of 70 dB(A) applies to education institutions, while 65dB(A) applies during school examination period.

4 WATER QUALITY MONITORING

4.1 Monitoring Requirements

4.1.1 Impact water quality monitoring was carried out to ensure that any deterioration of water quality was detected, and that timely action was taken to rectify the situation. For impact water quality monitoring, measurements were taken in accordance with the Contract Specific EM&A Manual. Appendix D shows the established Action/Limit Levels for the environmental monitoring works.

4.2 Monitoring Equipment

4.2.1 Table 4.1 summarises the equipment used in the impact water quality monitoring programme.

Table 4.1 Water Quality Monitoring Equipment

| Equipment | Brand and Model |
|---|---|
| Dissolved Oxygen (DO) and Temperature Meter, Salinity | YSI Model 6820 |
| Meter and Turbidity Meter | |
| pH Meter | YSI Model 6820 or Thermo Orion 230A+ |
| Positioning Equipment | JRC DGPS 224 Model JLR-4341 with J-NAV |
| | 500 Model NWZ4551 |
| Water Depth Detector | Eagle Cuda-168 and Lowrance x-4 |
| Water Sampler | Kahlsio Water Sampler (Vertical) 2.2 L with |
| | messenger |

4.3 Monitoring Parameters, Frequency and Duration

4.3.1 Table 4.2 summarises the monitoring parameters, frequency and monitoring depths of impact water quality monitoring as required in the Contract Specific EM&A Manual.

Table 4.2 Impact Water Quality Monitoring Parameters and Frequency

| Monitoring Stations | Parameter, unit | Frequency | No. of depth |
|--|--|--|--|
| Impact Stations: IS5, IS(Mf)6, IS7, IS8, IS(Mf)9, IS10, IS(Mf)11, IS(Mf)16, IS17 Control/Far Field Stations: CS(Mf)3, CS(Mf)5, CS4, CS6, CSA Sensitive Receiver Stations: SR3-SR7, SR10A&SR10B | Depth, m Temperature, °C Salinity, ppt Dissolved Oxygen (DO), mg/L DO Saturation, % Turbidity, NTU pH Suspended Solids (SS), mg/L | Three times per week during mid- ebb and mid- flood tides (within ± 1.75 hour of the predicted time) | 3 (1 m below water surface, mid-depth and 1 m above sea bed, except where the water depth is less than 6 m, in which case the middepth station may be omitted. Should the water depth be less than 3 m, only the mid-depth station will be monitored). |

4.4 Monitoring Locations

- 4.4.1 In accordance with the Contract Specific EM&A Manual, twenty-one stations (9 Impact Stations, 7 Sensitive Receiver Stations and 5 Control/Far Field Stations) were designated for impact water quality monitoring. The nine Impact Stations (IS) were chosen on the basis of their proximity to the reclamation and thus the greatest potential for water quality impacts, the seven Sensitive Receiver Stations (SR) were chosen as they are close to the key sensitive receives and the five Control/ Far Field Stations (CS) were chosen to facilitate comparison of the water quality of the IS stations with less influence by the Project/ ambient water quality conditions.
- 4.4.2 Due to safety concern and topographical condition of the original locations of SR4 and SR10B, alternative impact water quality monitoring stations, naming as SR4 (N) and SR10B (N), were adopted, which are situated in vicinity of the original impact water quality monitoring stations (SR4 and SR10B) and could be reachable.
- 4.4.3 Same baseline and Action Level for water quality, as derived from the baseline monitoring data recorded, were adopted for these alternative impact water quality monitoring stations.
- 4.4.4 With respect to the latest available information about the temporary works boundary associated with the Expansion of Hong Kong International Airport into a Three-Runway System project (3RS project), it is noted that a few impact water quality monitoring stations of this Contract will be enclosed by temporary works boundary of 3RS project, as such alternation on the water quality monitoring stations of this Contract will tentatively be proposed in next reporting month.
- 4.4.5 The locations of these monitoring stations are summarized in Table 4.3 and depicted in Figure 3.

Table 4.3 Impact Water Quality Monitoring Stations

| Station | Description | East | North |
|----------|--|--------|--------|
| IS5 | Impact Station (Close to HKBCF construction site) | 811579 | 817106 |
| IS(Mf)6 | Impact Station (Close to HKBCF construction site) | 812101 | 817873 |
| IS7 | Impact Station (Close to HKBCF construction site) | 812244 | 818777 |
| IS8 | Impact Station (Close to HKBCF construction site) | 814251 | 818412 |
| IS(Mf)9 | Impact Station (Close to HKBCF construction site) | 813273 | 818850 |
| IS10 | Impact Station (Close to HKBCF construction site) | 812577 | 820670 |
| IS(Mf)11 | Impact Station (Close to HKBCF construction site) | 813562 | 820716 |
| IS(Mf)16 | Impact Station (Close to HKBCF construction site) | 814328 | 819497 |
| IS17 | Impact Station (Close to HKBCF construction site) | 814539 | 820391 |
| SR3 | Sensitive receivers (San Tau SSSI) | 810525 | 816456 |
| SR4(N) | Sensitive receivers (Tai Ho) | 814705 | 817859 |
| SR5 | Sensitive receivers (Artificial Reef in NE Airport) | 811489 | 820455 |
| SR6 | Sensitive receivers (Sha Chau and Lung Kwu Chau Marine Park) | 805837 | 821818 |
| SR7 | Sensitive receivers (Tai Mo Do) | 814293 | 821431 |
| SR10A | Sensitive receivers (Ma Wan FCZ)1 | 823741 | 823495 |
| SR10B(N) | Sensitive receivers (Ma Wan FCZ)2 | 823683 | 823187 |
| CS(Mf)3 | Control Station | 809989 | 821117 |
| CS(Mf)5 | Control Station | 817990 | 821129 |
| CS4 | Control Station | 810025 | 824004 |
| CS6 | Control Station | 817028 | 823992 |



| Station | Description | East | North |
|---------|-----------------|--------|--------|
| CSA | Control Station | 818103 | 823064 |

4.5 Monitoring Methodology

4.5.1 Instrumentation

(a) The in-situ water quality parameters, viz. dissolved oxygen, temperature, salinity, turbidity and pH, were measured by multi-parameter meters (i.e. Model YSI 6820 CE-C-M-Y) and pH meter (i.e. Thermo Orion 230A+) respectively.

4.5.2 Operating/Analytical Procedures

- (a) Digital Differential Global Positioning Systems (DGPS) were used to ensure that the correct location was selected prior to sample collection.
- (b) Portable, battery-operated echo sounders were used for the determination of water depth at each designated monitoring station.
- (c) All in-situ measurements were taken at 3 water depths, 1 m below water surface, mid-depth and 1 m above sea bed, except where the water depth was less than 6 m, in which case the mid-depth station was omitted. Should the water depth be less than 3 m, only the mid-depth station was monitored.
- (d) At each measurement/sampling depth, two consecutive in-situ monitoring (DO concentration and saturation, temperature, turbidity, pH, salinity) and water sample for SS. The probes were retrieved out of the water after the first measurement and then re-deployed for the second measurement. Where the difference in the value between the first and second readings of DO or turbidity parameters was more than 25% of the value of the first reading, the reading was discarded and further readings were taken.
- (e) Duplicate samples from each independent sampling event were collected for SS measurement. Water samples were collected using the water samplers and the samples were stored in high-density polythene bottles. Water samples collected were well-mixed in the water sampler prior to pre-rinsing and transferring to sample bottles. Sample bottles were pre-rinsed with the same water samples. The sample bottles were then be packed in cool-boxes (cooled at 4°C without being frozen), and delivered to ALS Technichem (HK) Pty Ltd. for the analysis of suspended solids concentrations. The laboratory determination work would be started within 24 hours after collection of the water samples. ALS Technichem (HK) Pty Ltd. is a HOKLAS accredited laboratory and has comprehensive quality assurance and quality control programmes. For QA/QC procedures, one duplicate samples of every batch of 20 samples was analyzed.
- (f) The analysis method and reporting and detection limit for SS is shown in Table 4.4.

Table 4.4 Laboratory Analysis for Suspended Solids

| Parameters | Instrumentation | Analytical Method | Reporting Limit | Detection Limit |
|----------------------|-----------------|-------------------|-----------------|------------------------|
| Suspended Solid (SS) | Weighting | APHA 2540-D | 0.5mg/L | 0.5mg/L |

(g) Other relevant data were recorded, including monitoring location / position, time, water depth, tidal stages, weather conditions and any special phenomena or work underway at the construction site in the field log sheet for information.

- 4.5.3 Maintenance and Calibration
 - (a) All in situ monitoring instruments would be calibrated and calibrated by ALS Technichem (HK) Pty Ltd. before use and at 3-monthly intervals throughout all stages of the water quality monitoring programme. Calibration details are provided in Appendix E.
 - (b) The dissolved oxygen probe of YSI 6820 was calibrated by wet bulb method. Before the calibration routine, the sensor for dissolved oxygen was thermally equilibrated in water-saturated air. Calibration cup is served as a calibration chamber and it was loosened from airtight condition before it is used for the calibration. Calibration at ALS Technichem (HK) Pty Ltd. was carried out once every three months in a water sample with a known concentration of dissolved oxygen. The sensor was immersed in the water and after thermal equilibration, the known mg/L value was keyed in and the calibration was carried out automatically.
 - (c) The turbidity probe of YSI 6820 is calibrated two times a month. A zero check in distilled water was performed with the turbidity probe of YSI 6820 once per monitoring day. The probe will be calibrated with a solution of known NTU at ALS Technichem (HK) Pty Ltd. once every three months.

4.6 Monitoring Schedule for the Reporting Month

- 4.6.1 The schedule for impact water quality monitoring in August 2016 is provided in Appendix F.
- 4.6.2 Due to tropical cyclone warning signal no.3 or above was hoisted during the water quality monitoring scheduled on 1 August 2016 was cancelled except the monitoring locations named CSA, CS6, SR10B(N) and SR10A during Mid-Ebb Tide.

4.7 Results and Observations

4.7.1 Impact water quality monitoring results and graphical presentations are provided in Appendix J.

Table 4.5 Summary of Water Quality Exceedances

| Station | Exceedance DO (S&M) DO (Bot | | ottom) | Turbidity | | | SS | Total | | | |
|------------|-----------------------------|-----|--------|-----------|-------|-----|-------|-------|-------|-----|-------|
| | Level | Ebb | Flood | Ebb | Flood | Ebb | Flood | Ebb | Flood | Ebb | Flood |
| IS5 | Action | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 155 | Limit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| IC/Mf)6 | Action | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| IS(Mf)6 | Limit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| IS7 | Action | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 157 | Limit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| IS8 | Action | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 156 | Limit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| IS(Mf)9 | Action | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 13(1111)9 | Limit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| IS10 | Action | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1310 | Limit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| IS(Mf)11 | Action | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 13(1011)11 | Limit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| IS(Mf)16 | Action | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 13(1011)10 | Limit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| IS17 | Action | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1517 | Limit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SR3 | Action | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 313 | Limit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SR4(N) | Action | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SK4(IV) | Limit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SR5 | Action | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SKU | Limit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SR6 | Action | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SKU | Limit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |



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| Station | Exceedance Level | DO (S&M) | | DO (B | DO (Bottom) | | Turbidity SS Total | | SS | | otal |
|---------|---------------------|----------|-------|-------|-------------|-----|--------------------|-----|-------|-----|-------|
| | Level | Ebb | Flood | Ebb | Flood | Ebb | Flood | Ebb | Flood | Ebb | Flood |
| SR7 | Action | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SK/ | Limit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SR10A | Action | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SKIUA | Limit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SR10B | Action | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| (N) | Limit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | Action | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| | Limit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |

Note: S: Surface; and M: Mid-depth.

- 4.7.2 No exceedance was recorded at all monitoring stations in the reporting month.
- 4.7.3 The event action plan is annexed in Appendix L.

DOLPHIN MONITORING

5.1 **Monitoring Requirements**

- Vessel based surveys for the Chinese White Dolphin (CWD), Sousa chinensis, are to be conducted by 5.1.1 a dedicated team comprising a qualified marine mammal ecologist and experienced marine mammal observers (MMOs). The purpose of the surveys are to evaluate the impact of the HKCBF reclamation and, if deemed detrimental, to take appropriate action as per the EM&A manual.
- This 'Impact Monitoring' follows several months of 'Baseline Monitoring' so similar survey 5.1.2 methodologies have been adopted to facilitate comparisons between datasets. Further, the data collected are compatible with, and are available for, incorporation into the data set managed by the Agriculture, Fisheries and Conservation Department (AFCD) as part of Hong Kong's long term Marine Mammal Monitoring Programme.

5.2 **Monitoring Equipment**

Table 5.1 summarises the equipment used for the impact dolphin monitoring.

Table 5.1 **Dolphin Monitoring Equipment**

| Equipment | Model |
|--------------------------------------|--|
| Commercially licensed motor vessel | 15m in length with a 4.5m viewing platform |
| Global Positioning System (GPS) x2 | Integrated into T7000 |
| | Garmin GPS Map 76C |
| Computers (T7000 Tablet, Intel Atom) | Windows 7/MSO 13 |
| | Logger |
| Camera | Nikon D7100 300m 2.8D fixed focus |
| | Nikon D90 80-400mm zoom lens |
| Laser Rangefinder | Range Finder Bushnell 1000m |
| Marine Binocular x3 | Nexus 7 x 50 marine binocular with compass |
| | and reticules |
| | Fujinon 7 x 50 marine binocular with compass |
| | and reticules |

5.3 **Monitoring Frequency and Conditions**

- 5.3.1 Dolphin monitoring is conducted twice per month in each survey area.
- 5.3.2 Dolphin monitoring is conducted only when visibility is good (e.g., over 1km) and the sea condition is at a Beaufort Sea State of 4 or better.
- 5.3.3 When thunder storm, black rain or typhoon warnings are in force, all survey effort is stopped.

5.4 **Monitoring Methodology and Location**

- The impact dolphin monitoring is vessel-based and combines line-transect and photo-ID methodology. 5.4.1 The survey follows pre-set and fixed transect lines in the two areas defined by AFCD as:
- 5.4.2 Northeast Lantau survey area; and
- 5.4.3 Northwest Lantau survey area.
- 5.4.4 With respect to the latest available information about the temporary works boundary associated with the Expansion of Hong Kong International Airport into a Three-Runway System project (3RS project), it is noted that transect lines of this Contract will be enclosed by temporary works boundary of 3RS project, as such alternation of the transect lines of this Contract will tentatively be proposed in next reporting month.



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5.4.5 The co-ordinates for the transect lines and layout map have been provided by AFCD and are shown in Table 5.2 and Figure 4.

Table 5.2 Impact Dolphin Monitoring Line Transect Co-ordinates (Provided by AFCD)

| | HK Grid | System | Long Lat | in WGS84 |
|-----|---------|--------|------------|-----------|
| ID | Х | Υ | Long | Lat |
| 1 | 804671 | 815456 | 113.870287 | 22.277678 |
| 1 | 804671 | 831404 | 113.869975 | 22.421696 |
| 2 | 805475 | 815913 | 113.878079 | 22.281820 |
| 2 | 805477 | 826654 | 113.877896 | 22.378814 |
| 3 | 806464 | 819435 | 113.887615 | 22.313643 |
| 3 | 806464 | 822911 | 113.887550 | 22.345030 |
| 4 | 807518 | 819771 | 113.897833 | 22.316697 |
| 4 | 807518 | 829230 | 113.897663 | 22.402113 |
| 5 | 808504 | 820220 | 113.907397 | 22.320761 |
| 5 | 808504 | 828602 | 113.907252 | 22.396462 |
| 6 | 809490 | 820466 | 113.916965 | 22.323003 |
| 6 | 809490 | 825352 | 113.916884 | 22.367128 |
| 7 | 810499 | 820880 | 113.926749 | 22.326757 |
| 7 | 810499 | 824613 | 113.926688 | 22.360464 |
| 8 | 811508 | 821123 | 113.936539 | 22.328966 |
| 8 | 811508 | 824254 | 113.936486 | 22.357241 |
| 9 | 812516 | 821303 | 113.946320 | 22.330606 |
| 9 | 812516 | 824254 | 113.946279 | 22.357255 |
| 10* | 813525 | 820827 | 113.956112 | 22.326321 |
| 10* | 813525 | 824657 | 113.956066 | 22.360908 |
| 11 | 814556 | 818853 | 113.966155 | 22.304858 |
| 11 | 814556 | 820992 | 113.966125 | 22.327820 |
| 12 | 815542 | 818807 | 113.975726 | 22.308109 |
| 12 | 815542 | 824882 | 113.975647 | 22.362962 |
| 13 | 816506 | 819480 | 113.985072 | 22.314192 |
| 13 | 816506 | 824859 | 113.985005 | 22.362771 |
| 14 | 817537 | 820220 | 113.995070 | 22.320883 |
| 14 | 817537 | 824613 | 113.995018 | 22.360556 |
| 15 | 818568 | 820735 | 114.005071 | 22.325550 |
| 15 | 818568 | 824433 | 114.005030 | 22.358947 |
| 16 | 819532 | 821420 | 114.014420 | 22.331747 |
| 16 | 819532 | 824209 | 114.014390 | 22.356933 |
| 17 | 820451 | 822125 | 114.023333 | 22.338117 |
| 17 | 820451 | 823671 | 114.023317 | 22.352084 |
| 18 | 821504 | 822371 | 114.033556 | 22.340353 |
| 18 | 821504 | 823761 | 114.033544 | 22.352903 |
| 19 | 822513 | 823268 | 114.043340 | 22.348458 |
| 19 | 822513 | 824321 | 114.043331 | 22.357971 |
| 20 | 823477 | 823402 | 114.052695 | 22.349680 |
| 20 | 823477 | 824613 | 114.052686 | 22.360610 |
| 21 | 805476 | 827081 | 113.877878 | 22.382668 |
| 21 | 805476 | 830562 | 113.877811 | 22.414103 |
| 22 | 806464 | 824033 | 113.887520 | 22.355164 |
| 22 | 806464 | 829598 | 113.887416 | 22.405423 |
| 23 | 814559 | 821739 | 113.966142 | 22.334574 |
| 23 | 814559 | 824768 | 113.966101 | 22.361920 |

Remarks:

(a) *Due to the presence of deployed silt curtain systems at the site boundaries of the Contract, some of the transect lines shown in Figure 5 could not be fully surveyed during the regular survey. Transect 10 is reduced from 6.4km to approximately 3.6km in length due to the HKBCF construction site. Therefore the total transect length for both NEL and NWL combined is reduced to approximately 108km.



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(b) Coordinates for transect lines 1, 2, 7, 8, 9 and 11 have been updated in respect to the Proposal for Alteration of Transect Line for Dolphin Monitoring approved by EPD on 19 August 2015.

5.5 Monitoring Procedures

- 5.5.1 The study area incorporates 23 transects which are to be surveyed twice per month. Each survey day lasts approximately 9 hours.
- 5.5.2 The survey vessel departs from Tung Chung Development Pier, Tsing Yi Public Pier or the nearest safe and convenient pier.
- 5.5.3 When the vessel reaches the start of a transect line, "on effort" survey begins. Areas between transect lines and traveling to and from the study area are defined as "off effort".
- 5.5.4 The transect line is surveyed at a speed of 6-8 knots (11-14 km/hr). For the sake of safety, the speed was sometimes a bit slower to avoid collision with other vessels. During some periods, tide and current flow in the survey areas exceeds 7 knots which can affect survey speed. There are a minimum of four marine mammal observers (MMOs) present on each survey, rotating through four positions, observers (2), data recorder (1) and 'rest' (1). Rotations occur every 30 minutes or at the end of dolphin encounters. The data recorder records effort, weather and sightings data directly onto the programme Logger and is not part of the observer team. The observers search with naked eye and binoculars between 90° and 270° abeam (bow being 0°).
- 5.5.5 When a group of dolphins is sighted, position, bearing and distance data are recorded immediately onto the computer and, after a short observation, an estimate made of group size. These parameters are linked to the time-GPS-ships data which are automatically stored in the programme Logger throughout the survey period. In this manner, information on heading, position, speed, weather, effort and sightings are stored in a format suitable for use with DISTANCE software for subsequent line transect analyses.
- 5.5.6 Once the vessel leaves the transect line, it is deemed to be "off effort". The dolphins are approached with the purpose of taking high resolution pictures for proper photo-identification of individual CWD. Attempts to photograph all dolphins in the group are made. Both the left and right hand sides of the dorsal fin area of each dolphin in the group are photographed, if possible. On finishing photographing, the vessel will return to the transect line at the point of departure and "on effort" survey is resumed.
- 5.5.7 Sightings which are made while on the transect line are referred to as "on effort sightings", while not on the actual transect line are referred to as an "opportunistic sightings" (e.g. another group of dolphins is sighted while travelling back to the transect line). Only "on effort sightings" can be used in analyses which require effort or rate quantification, e.g., encounter rate per 100km searched. This is also how "on effort sightings" are treated in the baseline report. "Opportunistic sightings" provide additional information on individual habitat use and population distribution and they are noted accordingly.
- 5.5.8 As time and GPS data are automatically logged throughout the survey and are linked to sightings data input, start and end times of encounters and deviation from the transect lines are recorded and can be subsequently reviewed.

5.6 Monitoring Schedule for the Reporting Month

- 5.6.1 The schedule for dolphin monitoring in August 2016 is provided in Appendix F.
- 5.6.2 Two surveys covering both study areas were completed.

5.7 Results and Observations

5.7.1 Dolphin surveys were conducted on 8, 9, 29 and 30 of August 2016. A total of 219.5 km of transect line was conducted, all was during Beaufort Sea State 3 or better (favourable water conditions).

The effort summary and sightings data are shown in Tables 5.3 and 5.4, respectively. The survey efforts conducted in August 2016 are plotted in Figure 5a-b. For Table 5.3, only on-effort information is included. Transects conducted in all Beaufort Sea State are included. Compared to previous monthly reports, the whole number Beaufort Sea State scale is used so as to ease comparison with other dolphin monitoring reports.

Table 5.3 Impact Dolphin Monitoring Survey Effort Summary, Effort by Area and Beaufort Sea State

| | | | | | Total Distance Travelled | | | | |
|--------|----------------------|------|----------|-------------|--------------------------------|--|--|--|--|
| Survey | Date | Area | Beaufort | Effort (km) | (km) | | | | |
| | 08/08/2016 | NWL | 1 | 33.3 | | | | | |
| | 08/08/2016 | NWL | 2 | 9.5 | | | | | |
| | 08/08/2016 | NWL | 3 | 7.1 | | | | | |
| 1 | 08/09/2016 | NWL | 1 | 14.2 | 110.5 | | | | |
| | 08/09/2016 | NWL | 2 | 9.1 | | | | | |
| | 08/09/2016 | NEL | 1 | 30.1 | | | | | |
| | 08/09/2016 | NEL | 2 | 7.2 | | | | | |
| | 08/29/2016 | NWL | 1 | 16.9 | | | | | |
| | 08/29/2016 | NWL | 2 | 6.5 | | | | | |
| 2 | 08/29/2016 | NEL | 1 | 27.5 | 109 | | | | |
| | 08/29/2016 | NEL | 2 | 8.9 | 103 | | | | |
| | 08/30/2016 | NWL | 1 | 33.6 | | | | | |
| | 08/30/2016 | NWL | 2 | 15.6 | | | | | |
| | TOTAL in August 2016 | | | | | | | | |

^{*}Remark: Surveys conduct under Beaufort Sea State 3 or below are considered as under favourable condition.

Table 5.4 Impact Dolphin Monitoring Survey Details August 2016

| Date | Location | No. Sightings "on effort" | No. Sightings "opportunistic" |
|------------|----------------------|---------------------------|----------------------------------|
| | NWL/WL | 3 | 1* |
| 08/08/2016 | NEL | 0 | 0 |
| | NWL | 1 | 0 |
| 09/08/2016 | NEL | 0 | 0 |
| | NEL | 0 | 0 |
| 29/08/2016 | NEL | 0 | 0 |
| | NWL | 2 | 0 |
| 30/08/2016 | NEL | 0 | 0 |
| | TOTAL in August 2016 | 6 | 1 |

^{*} Group of dolphin was sighted at WL area while vessel based dolphin monitoring was conducted in NWL

Table 5.5 The Encounter Rate of Number of Dolphin Sightings & Total Number of Dolphins per Area^

| per Are | a | | | | | | | |
|--|-------|-------|-----------|-----------|-----------|-----------|--|--|
| Encounter Rate of Number of Dolphin Sightings (STG)* | | | | | | | | |
| | NEL | NWL | | | NEL | NWL | | |
| | Track | Track | NEL | NWL | Encounter | Encounter | | |
| Date | (km) | (km) | Sightings | Sightings | Rate | Rate | | |

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Monthly EM&A Report for August 2016

| | | | | <u> </u> | | |
|---------------------|------|------|---|----------|-----|-----|
| 8 & 9 August 2016 | 37.3 | 73.2 | 0 | 4 | 0.0 | 5.5 |
| 29 & 30 August 2016 | 36.4 | 72.6 | 0 | 2 | 0.0 | 2.8 |

Encounter Rate of Total Number of Dolphins (ANI)

| Date | NEL Track (km) | NWL Track (km) | NEL Dolphins | NWL Dolphins | NEL Encounter Rate | NWL Encounter Rate |
|---------------------|----------------------|----------------------|-----------------|-----------------|--------------------------|--------------------------|
| 8 & 9 August 2016 | 37.3 | 73.2 | 0 | 8 | 0.0 | 10.9 |
| 29 & 30 August 2016 | 36.4 | 72.6 | 0 | 12 | 0.0 | 16.5 |

^{*} Encounter Rate of Number of Dolphin Sightings (STG) presents encounter rates in terms of groups per 100km.

- 5.7.2 A total of 7 sightings were made, six "on effort" and one "opportunistic". Four sightings were recorded on the 8 August2016, one was on 9 August 2016 and two were on 30 August 2016. On 8 August 2016, the two largest groups, comprising six and four individuals, were engaged in multiple behaviours including feeding and socialising. The two other groups of two and one were both travelling. The group sighted on 9 August 2016 contained one individual who was feeding and milling. On the 30 August 2016, two groups were sighted, the group of eight was feeding and travelling and the group of four was feeding. No calves were sighted in August 2016. Sighting details are summarised and plotted in Appendix K and Figure 5c, respectively. The locations of sighting with different behaviour are mapped in Figure 5d.
- 5.7.3 Two resightings were noted in July 2016. HZMB 001 was first sighted in March 2012, the first month of dolphin impact monitoring, and was seen throughout 2013, once in 2014 and then sighted again in May 2016. HZMB 121 has been sighted once previously, in July 2014. Please also refer to resightings table (Appendix K).
- 5.7.4 For dolphin monitoring, one (1) limit level exceedance is recorded. The Investigation is undergoing and investigation results will be reported in quarterly report (June– August 2016)
- 5.7.5 Noteworthy Observation¹:
- 5.7.5.1 When impact monitoring was conducted at the southern parts of transect lines 1 & 2, the view of the area was partially blocked by the working vessels and fixed structures which do not belong to HKBCF Reclamation Works. The number of fixed structures has increased however the number of working vessels appears to have decreased, thus making it possible to travel between some of the structures. It is considered that the working barges will temporarily affect survey protocol, survey data collection, dolphin movement, dolphin habitat use and dolphin behaviour, whereas the fixed structures will continuously affect survey protocol, survey data collection, dolphin movement, dolphin habitat use and dolphin behaviour.
- 5.7.5.2 The HKBCF and adjoining "Southern Landfall" Projects effected lines 11, 12 and 13. The view of the area was partially blocked by the working vessels and in water structures. As the working vessels will move as construction progresses, they will cause temporary effects to survey protocol and survey data collection. In time, the fixed structures will affect all survey protocols and dolphin ecology in the long term. As construction is ongoing, it is not yet known if these fixed structures will affect the transect lines passage. It is noted that fewer vessels occupy this area compared to previous months
- 5.7.5.3 Fishing Vessels were noted anchored on several occasions at line 1. Previously, dolphins have been known to be attracted to fishing vessels, both active and anchored, and as such the anchored vessels may have temporarily affected the dolphins distribution.

¹ A noteworthy observation is to show that either the conduct of the surveys themselves is affected, i.e., the noted vessel or works impedes the progress or view of the survey platform. In addition, the vessel or construction works may be different or additional to that observed previously and further, are of such a nature that they are a likely to create an impact on the movement or behaviour of the subject of the impact survey, in this case, the dolphins.



^{**} Encounter Rate of Total Number of Dolphins (ANI) presents encounter rates in terms of individuals per 100km. And the encounter rate is not corrected for individuals, calculation may represent double counting.

[^]The table is made only for reference to the quarterly STG & ANI, which were adopted for the Event & Action Plan.

- 5.7.5.4 Travel to the northern end of line 10 and line 23 was slightly impeded by anchorages. After checking with the Contractor, there are no trans-boundary vessels that are required to anchor at northern ends of lines 10 during this reporting period, as such they are unlikely to be related to this Contract. As there are variable numbers of ships in this anchorage through time, it is considered that this could temporarily affect survey protocol, survey data collection and dolphin habitat use.
- 5.7.5.5 Several single anchored vessels were noted on lines 13, 17, 18 and 21 which caused the monitoring vessel to divert slightly from the trackline or blocked the transect area view. It is unknown who these vessels belong to or even if they were Project related. After checking with the Contractor, there are no transboundary vessels that are required to anchor on lines 13, 17, 18 and 21 during this reporting period, as such they are unlikely to be related to this Contract. As there are variable numbers of ships in anchor on these lines through time, it is considered that this could temporarily affect survey protocol, survey data collection and dolphin habitat use.
- 5.7.5.6 New projects which do not belongs to contract HY/2010/02 were noted on lines 2, 3 and 6 which blocked the transect area view. It is unknown what activities occur under this project or how long it may occur for and, as such, it is considered that this new project may affect survey protocol, survey data collection and dolphin habitat use.
- 5.7.5.7 The survey effort log notes the areas in which the visibility is limited or the survey is affected so that these can be accounted for in any subsequent analyses. Some of these obstructions will become permanent and some will be temporary as the HZMB is built and other projects progress. It is advised that the impact monitoring surveys should be completed as close to the predefined lines as possible (as per Figure 4 of this report).
- 5.7.5.8 The above noteworthy observations are largely a result of multiple and on-going infrastructure projects within the Lantau area. No amendment to EM&A protocols can negate the effects of these projects, e.g., it is a highly dynamic environment and viewing conditions may alter every survey (sometimes within surveys) and most of the survey area is affected, to some degree, by marine construction works. Instead, survey data analyses should incorporate any noteworthy observations which may affect either data collection or dolphin distribution and behavioural changes. The above mentioned activities recorded during boat survey will not affect implementation of the EM&A Programme provided appropriate data analyses are conducted.
- 5.7.6 The event action plan is annexed in Appendix L.

6 ENVIRONMENTAL SITE INSPECTION AND AUDIT

6.1 Site Inspection

- 6.1.1 Site Inspections were carried out on a weekly basis to monitor the implementation of proper environmental pollution control and mitigation measures for the Contract. In the reporting month, 4 site inspections were carried out on 4, 11, 18 and 25 August 2016.
- 6.1.2 Particular observations during the site inspections are described below:

Air Quality

- 6.1.3 Fugitive dust was observed during handling of rock. The Contractor was reminded to provide dust suppression measures such as watering to during the handling of rock. (Follow up)
- 6.1.4 An excavator was observed without NRMM label. The Contractor was advised to affix NRMM label properly onto the excavator. The Contractor subsequently affix NRMM label to the excavator. (Closed)

Noise

6.1.5 No relevant adverse impact was observed in the reporting month.

Water Quality

6.1.6 Silt curtain was observed temporarily disconnected near Portion D. The Contractor was reminded to ensure mitigation measures such as the silt curtain is properly maintained and implemented. The Contractor subsequently rectified the disconnected part of the silt curtain. (Closed)

Chemical and Waste Management

- 6.1.7 Damaged drip tray was observed at Portion D. The Contractor should repair and replace the drip tray to avoid potential leakage. The contractor subsequently repaired the drip tray. (Closed)
- 6.1.8 Chemical container placed on ground was observed at portion D. The Contractor should store the chemical containers with drip tray properly. The chemical container was subsequently removed by the Contractor from Portion D. (Closed)
- 6.1.9 General refuse was observed on southern edge of lands area near Portion B. The Contractor was reminded to keep the site clean and tidy. The Contractor subsequently collected the general refuse on southern edge of lands area near Portion B. (Closed)
- 6.1.10 Floating refuse was observed at Portion D, the Contractor was reminded to collect them and dispose them and dispose them of properly. The Contractor subsequently collected the general refuse on sea. (Closed)

Landscape and Visual Impact

6.1.11 No relevant adverse impact was observed in the reporting month.

Others

6.1.12 No relevant adverse impact was observed in the reporting month.

6.2 Advice on the Solid and Liquid Waste Management Status

- 6.2.1 The Contractor had registered as a chemical waste producer for this Project. Receptacles were available for general refuse collection and sorting.
- 6.2.2 As advised by the Contractor, 30,000m³ of inert C&D material was reused in other projects. 18,958.7m³ of fill material were imported for the Contract use in the reporting period. 45.5m³ of general refuse were generated and disposed of in the reporting period. Monthly summary of waste flow table is detailed in Appendix M.
- 6.2.3 The Contractor is advised to properly maintain on site C&D materials and wastes storage, collection, sorting and recording system, dispose of C&D materials and wastes at designated ground and maximize reuse / recycle of C&D materials and wastes. The Contractor is reminded to properly maintain the site tidiness and dispose of the wastes accumulated on site regularly and properly.
- 6.2.4 The Contractor is reminded that chemical waste should be properly treated and stored temporarily in designated chemical waste storage area on site in accordance with the Code of Practice on the Packaging, Labeling and Storage of Chemical Wastes.
- 6.2.5 The treated marine sediment and/or treated excavated filling material specified by Contract no. HY/2013/01 has been received as public fill for Contract no. HY/2010/02's reclamation filling works since January 2015. As informed by the Contractor in the reporting month, such site arrangement has been discontinued since 24 February 2016.
- 6.2.6 After checking with the Contractor, surcharge material was removed off site to Macau from 27 April 2016 and it is continued in the reporting month. Surplus surcharge was exported to Macau during the reporting month. The Contractor was reminded to ensure consistency in quantities in case of any C&D material disposed off-site and/or no surcharge material removed off site.
- 6.2.7 As advised by the Contractor, approximately 170,000m³ of surplus surcharge was exported to Macau during the reporting month.

6.3 Environmental Licenses and Permits

6.3.1 The environmental licenses and permits for the Contract and valid in the reporting month is summarized in Table 6.1.

Table 6.1 Summary of Environmental Licensing and Permit Status

| Statutory Reference | License/ Permit | License or Permit No. | Valid Period | | License/ Permit | Remarks | |
|------------------------|---|--------------------------|--------------|------------|--------------------|--|--|
| | | | From | То | Holder | | |
| | Environmental Permit | EP- 353/2009/K | 11/04/2016 | N/A | HyD | Hong Kong – Zhuhai – Macao Bridge Hong Kong Boundary Crossing Facilities | |
| EIAO | | EP- 354/2009/D | 13/03/2015 | N/A | | Tuen Mun – Chek Lap Kok Link (TMCLKL Southern Landfall Reclamation only) | |
| APCO | NA notification | | 30/12/2011 | | CHEC | Works Area WA2 and WA3 | |
| APCO | NA notification | | 25/07/2014 | | CHEC | Works Area WA1 | |
| WDO | Chemical Waste Producer Registration | 5213-951- C1186-30 | 28/10/2015 | N/A | CHEC | Chemical waste produced in Contract HY/2010/02 (WA1) | |
| WDO | Chemical Waste Producer Registration | 5213-951- C1186-21 | 30/3/2012 | N/A | CHEC | Chemical waste produced in Contract HY/2010/02 (WA2) | |
| WDO | Chemical Waste Producer Registration | 5213-839- C3750-02 | 13/09/2012 | 1 | CHEC | Registration as Chemical Waste Producer at TKO 137(FB) | |
| WDO | Billing Account for Disposal of Construction Waste | 7014181 | 05/12/2011 | N/A | CHEC | Waste disposal in Contract HY/2010/02 | |
| NCO | Construction Noise Permit | GW- RE0385-16 | 19/04/2016 | 14/10/2016 | CHEC | Section of TKO Fill Bank under Contract HY/2010/02 | |
| NCO | Construction Noise Permit | GW- RS0747-16 | 22/07/2016 | 21/01/2017 | CHEC | Reclamation Works in Contract HY/2010/02 | |

6.4 Implementation Status of Environmental Mitigation Measures

- 6.4.1 In response to the site audit findings, the Contractors carried out corrective actions.
- 6.4.2 A summary of the Implementation Schedule of Environmental Mitigation Measures (EMIS) is presented in Appendix C. Most of the necessary mitigation measures were implemented properly.
- 6.4.3 Training of marine travel route for marine vessels operator was given to relevant staff and relevant records were kept properly.
- 6.4.4 Regarding the implementation of dolphin monitoring and protection measures (i.e. implementation of Dolphin Watching Plan, Dolphin Exclusion Zone and Silt Curtain integrity Check), regular checking were conducted by the experienced MMOs within the works area to ensure no dolphin was trapped by the enclosed silt curtain systems. Any dolphin spotted within the enclosed silt curtain systems was reported and recorded. Relevant procedures were followed and measures were well implemented. Silt curtain systems were also inspected timely in accordance to the submitted plan. All inspection records were kept properly.
- 6.4.5 Acoustic decoupling measures on noisy plants on construction vessels were checked regularly and the Contractor was reminded to ensure provision of ongoing maintenance to noisy plants and to carry out improvement work once insufficient acoustic decoupling measures were found.
- 6.4.6 Frequency of watering per day on exposed soil was checked; with reference to the record provided by the Contract, watering was conducted at least 8 times per day on reclaimed land. The frequency of watering is the mainly refer to water truck. Sprinklers are only served to strengthen dust control measure for busy traffic at the entrance of Portion D. As informed by the Contractor, during the malfunction period of sprinkler, water truck will enhance watering at such area. The Contractor was reminded to ensure provision of watering of at least 8 times per day on all exposed soil within the Contract site and associated works areas throughout the construction phase.
- 6.4.7 After review, 1 floating grout production was in operation at any time in August 2016 for Contract No.HY/2010/02. Condition 3.26A of EP-353/2009/K for Contract No.HY/2010/02 is complied with during the reporting month.
- 6.4.8 As informed by the Contractor, the perimeter silt curtain near Portion B of HKBCF has been arranged on 3 February 2016. A notification on the concerned site arrangement of the perimeter silt curtain of Contract HY/2010/02 was sent to IEC/ENPO by the ET for their review on 8 March 2016, IEC/ENPO issued comments on 10 March 2016 and the notification of realignment of perimeter silt curtain is under ET's further review in the reporting in the reporting month. The concerned notification on the concerned site arrangement of the perimeter silt curtain of Contract HY/2010/02 will be sent to the Authority once the review is completed.
- Further to our letter (ET's letter's ref.: 60249820/rmky16033001) dated 30/3/2016 regarding the 6.4.9 notification of silt curtain removal programme and arrangement, as informed by RSS on 18 May 2016, the Contractor provided an updated programme on 17 May 2016 to indicate the current site situation. According to CHEC's latest removal programme during the reporting month, stage 1 (southern section of Portion B) removal work was rescheduled and therefore not carried out in June 2016. Tentative completion for stage 1 removal work and dates for the subsequent stages have also been updated in the reporting month, while the overall phasing arrangement has not changed. A notification letter was prepared in the reporting month and sent to IEC/ENPO on 1 June 2016 via email to inform them that the removal of perimeter silt curtain of Stages 1, 2, 3 and 4 has been rescheduled. IEC/ENPO expressed on 7 June 2016 that the update on the proposal is mainly on time schedule and as such, they have no objection in principle. However prior to IEC/ENPO's reply to confirm ET's updated proposal. ET was requested to provide site photos to show ET's checking of the current site condition with respect to the reminders given in their previous letter (Our Ref.: HYDHZMBEEM00_0_4102L.16 dated 22 April 2016). After checking, it is noted that seawall and reclamation filling at the concerned section were completed and as informed by the Contractor, Stages 1 removal of the perimeter silt curtain has been completed on 20 August 2016.



6.5 Summary of Exceedances of the Environmental Quality Performance Limit

- 6.5.1 For impact air quality monitoring, no exceedance was recorded at all monitoring stations in the reporting month.
- 6.5.2 For construction noise, no exceedance was recorded at all monitoring stations in the reporting month.
- 6.5.3 For impact water quality monitoring, no exceedance was recorded at all monitoring stations in the reporting month.
- 6.5.4 For dolphin monitoring, one (1) limit level exceedance is recorded. The Investigation is undergoing and investigation results will be reported in quarterly report (June– August 2016)
- 6.5.5 Environmental site inspection was carried out 4 times in August 2016. Recommendations on remedial actions were given to the Contractors for the deficiencies identified during the site audits.
- 6.5.6 Cumulative statistics on exceedance is provided in Appendix N.

6.6 Summary of Complaints, Notification of Summons and Successful Prosecutions

- 6.6.1 The Environmental Complaint Handling Procedure is annexed in Figure 6.
- 6.6.2 No complaint, notification of summons or prosecution was received in the reporting period.
- 6.6.3 Statistics on complaints, notifications of summons and successful prosecutions are summarized in Appendix N.

7 FUTURE KEY ISSUES

7.1 Construction Programme for the Coming Months

7.1.1 As informed by the Contractor, the major works for the Contract in September and October 2016 will be *:-

Marine-base

- Sloping Seawalls
- Rubble Mound Seawall
- Maintenance of silt curtain

Land-base

- Surcharge removal & laying
- Deep Cement Mixing
- Construction of Permanent Seawall
- Maintenance works of Site Office at Works Area WA2
- Maintenance works of Public Works Regional Laboratory at Works Area WA3
- Maintenance of Temporary Marine Access at Works Area WA2

^{*}Construction activities in September and October 2016 will be changed subject to works progress.

7.2 Key Issues for the Coming Month

- 7.2.1 Key issues to be considered in the coming months:-
 - Site runoff should be properly collected and treated prior to discharge;
 - Regular review and maintenance of silt curtain systems, drainage systems and desilting facilities;
 - Exposed surfaces/soil stockpiles should be properly treated to avoid generation of silty surface runoff during rainstorm;
 - Regular review and maintenance of wheel washing facilities provided at all site entrances/exits;
 - Conduct regular inspection of various working machineries and vessels within works areas to avoid any dark smoke emission;
 - Suppress dust generated from work processes with use of bagged cements, earth movements, excavation activities, exposed surfaces/soil stockpiles and haul road traffic:
 - Quieter powered mechanical equipment should be used;
 - Provision of proper and effective noise control measures for operating equipment and machinery onsite, such as erection of movable noise barriers or enclosure for noisy plants;
 - Closely check and replace the sound insulation materials regularly;
 - Better scheduling of construction works to minimize noise nuisance;
 - Properly store and label oil drums and chemical containers placed on site;
 - Proper chemicals, chemical wastes and wastes management;
 - Maintenance works should be carried out within roofed, paved and confined areas;
 - Collection and segregation of construction waste and general refuse on land and in the sea should be carried out properly and regularly; and
 - Proper protection and regular inspection of existing trees, transplanted/retained trees.
 - Control night-time lighting and glare by hooding all lights.
 - Regular review and provide maintenance to dust control measures such as sprinkler system.

7.3 Monitoring Schedule for the Coming Month

7.3.1 The tentative schedule for environmental monitoring of September 2016 is provided in Appendix F.



8 CONCLUSIONS AND RECOMMENDATIONS

8.1 Conclusions

- 8.1.1 For impact air quality monitoring, no exceedance was recorded at all monitoring stations in the reporting month.
- 8.1.2 For construction noise, no exceedance was recorded at all monitoring stations in the reporting month.
- 8.1.3 For impact water quality monitoring, no exceedance was recorded at all monitoring stations in the reporting month.
- 8.1.4 For dolphin monitoring, one (1) limit level exceedance is recorded. The Investigation is undergoing and investigation results will be reported in quarterly report (June– August 2016)
- 8.1.5 No complaint, notification of summons or prosecution was received in the reporting period.
- 8.1.6 Environmental site inspection was carried out 4 times in August 2016. Recommendations on remedial actions were given to the Contractors for the deficiencies identified during the site audits.

8.2 Recommendations

8.2.1 According to the environmental site inspections performed in the reporting month, the following recommendations were provided:

Air Quality Impact

- All working plants and vessels on site should be regularly inspected and properly maintained to avoid dark smoke emission.
- All vehicles should be washed to remove any dusty materials before leaving the site.
- Haul roads should be sufficiently dampened to minimize fugitive dust generation.
- Wheel washing facilities should be properly maintained and reviewed to ensure properly functioning.
- Temporary exposed slopes and open stockpiles should be properly covered.
- Enclosure should be erected for cement debagging, batching and mixing operations.
- Water spraying should be provided to suppress fugitive dust for any dusty construction activity.
- Regular review and provide maintenance to dust control measures such as sprinkler system.

Construction Noise Impact

- Quieter powered mechanical equipment should be used as far as possible.
- Noisy operations should be oriented to a direction away from sensitive receivers as far as possible.
- Proper and effective noise control measures for operating equipment and machinery on-site should be provided, such as erection of movable noise barriers, enclosure for noisy plants or enhancement works to provide sufficient acoustic decoupling measure(s). Closely check and replace the sound insulation materials regularly
- Vessels and equipment operating should be checked regularly and properly maintained.
- Noise Emission Label (NEL) shall be affixed to the air compressor and hand-held breaker operating within works area.
- Acoustic decoupling measures should be properly implemented for all existing and incoming
 construction vessels with continuous and regularly checking to ensure effective implementation of
 acoustic decoupling measures.

Water Quality Impact

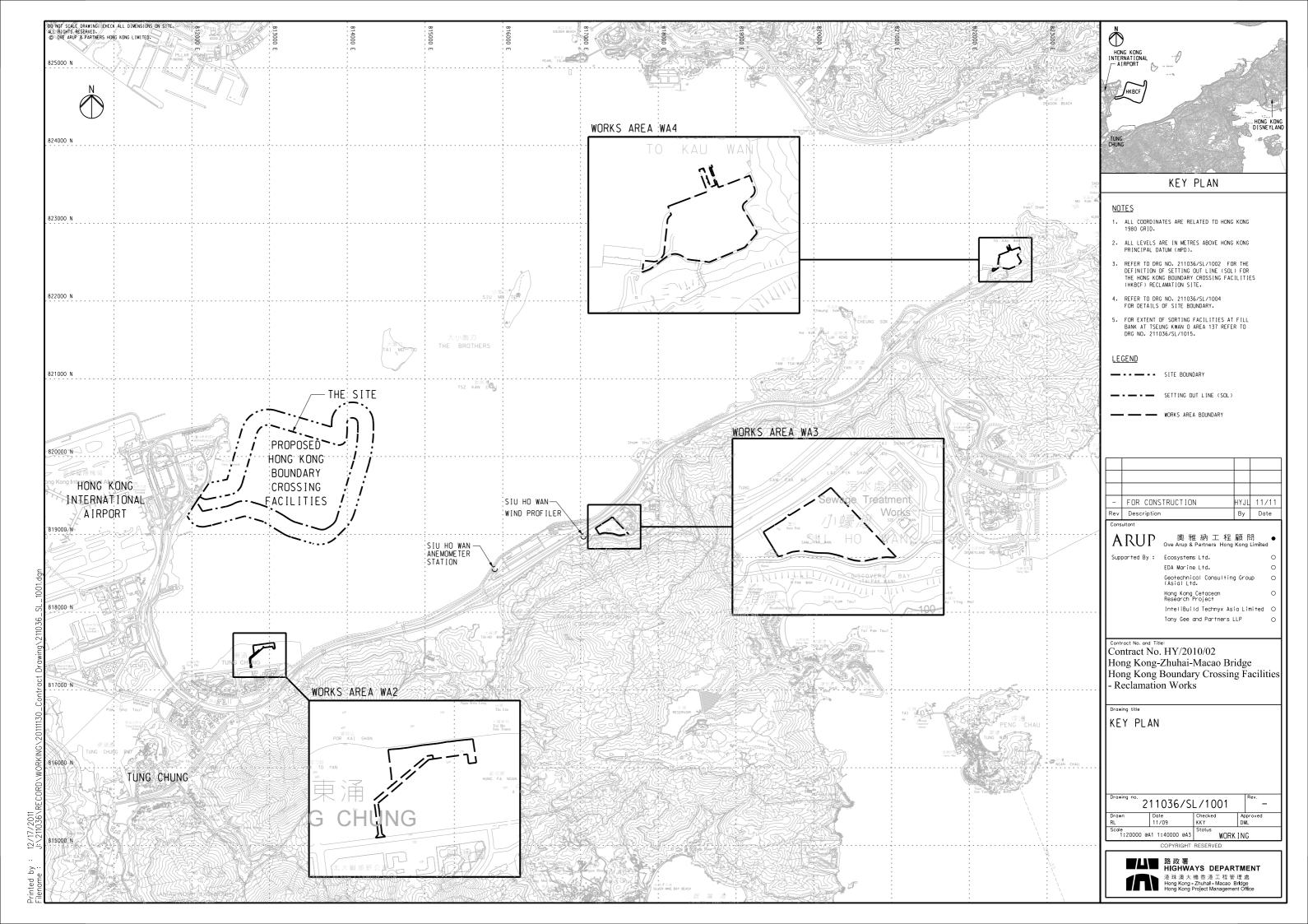
- Regular review and maintenance of silt curtain systems, drainage systems and desilting facilities in order to make sure they are functioning effectively.
- Construction of seawall should be completed as early as possible.
- Regular inspect and review the loading process from barges to avoid splashing of material.
- Silt, debris and leaves accumulated at public drains, wheel washing bays and perimeter uchannels and desilting facilities should be cleaned up regularly.
- Silty effluent should be treated/ desilted before discharged. Untreated effluent should be prevented from entering public drain channel.
- Proper drainage channels/bunds should be provided at the site boundaries to collect/intercept the surface run-off from works areas.
- Exposed slopes and stockpiles should be covered up properly during rainstorm.

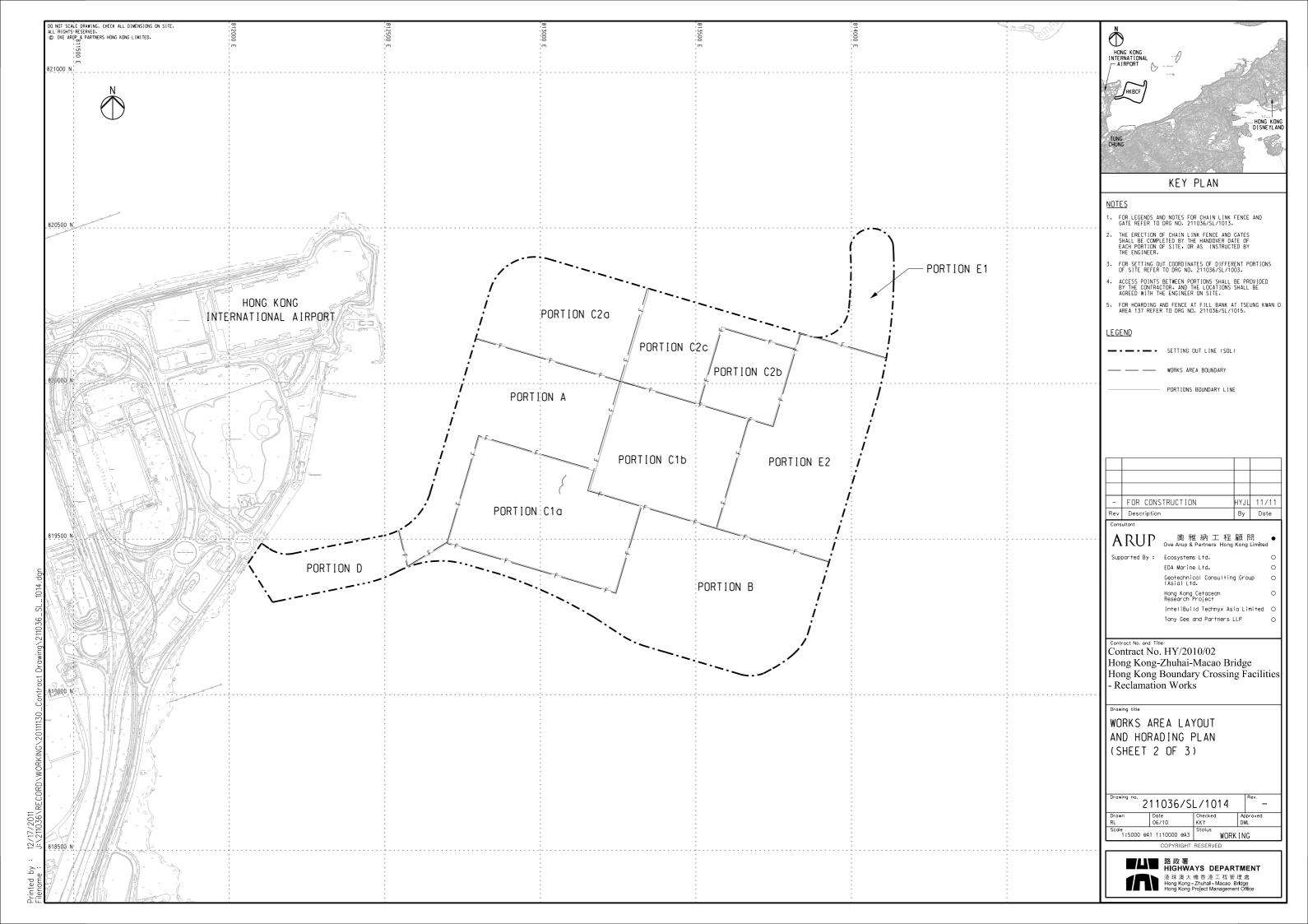
Chemical and Waste Management

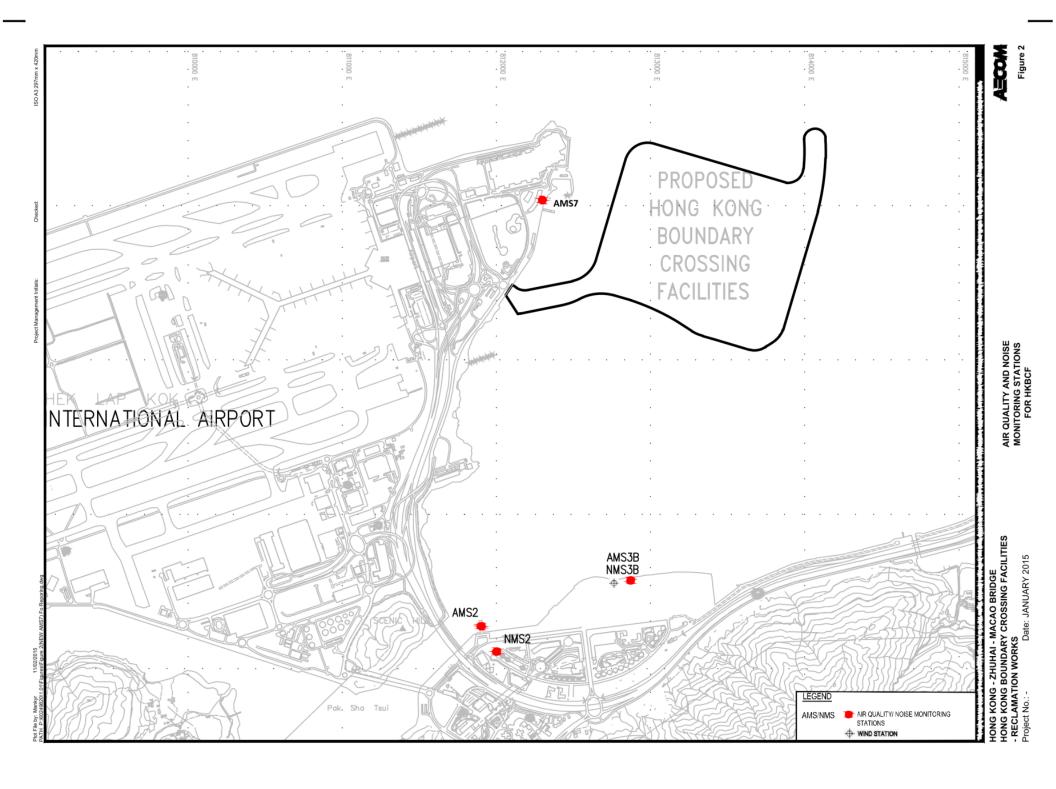
- All types of wastes, both on land and floating in the sea, should be collected and sorted properly
 and disposed of timely and properly. They should be properly stored in designated areas within
 works areas temporarily.
- All chemical containers, batteries and oil drums should be properly stored and labelled.
- All plants and vehicles on site should be properly maintained to prevent oil leakage. Proper measures, like drip trays and/or bundings, should be provided for retaining leaked oil/chemical from plants.
- All kinds of maintenance works should be carried out within roofed, paved and confined areas.
- All drain holes of the drip trays utilized within works areas should be properly plugged to avoid any oil and chemical waste leakage.
- Oil stains on soil surface, accumulated oil mixture and empty chemical containers should be cleared and disposed of as chemical waste.
- Regular review should be conducted for working barges and patrol boats to ensure sufficient
 measures and spill control kits were provided on working barges and patrol boats to avoid any
 spreading of leaked oil/chemicals.

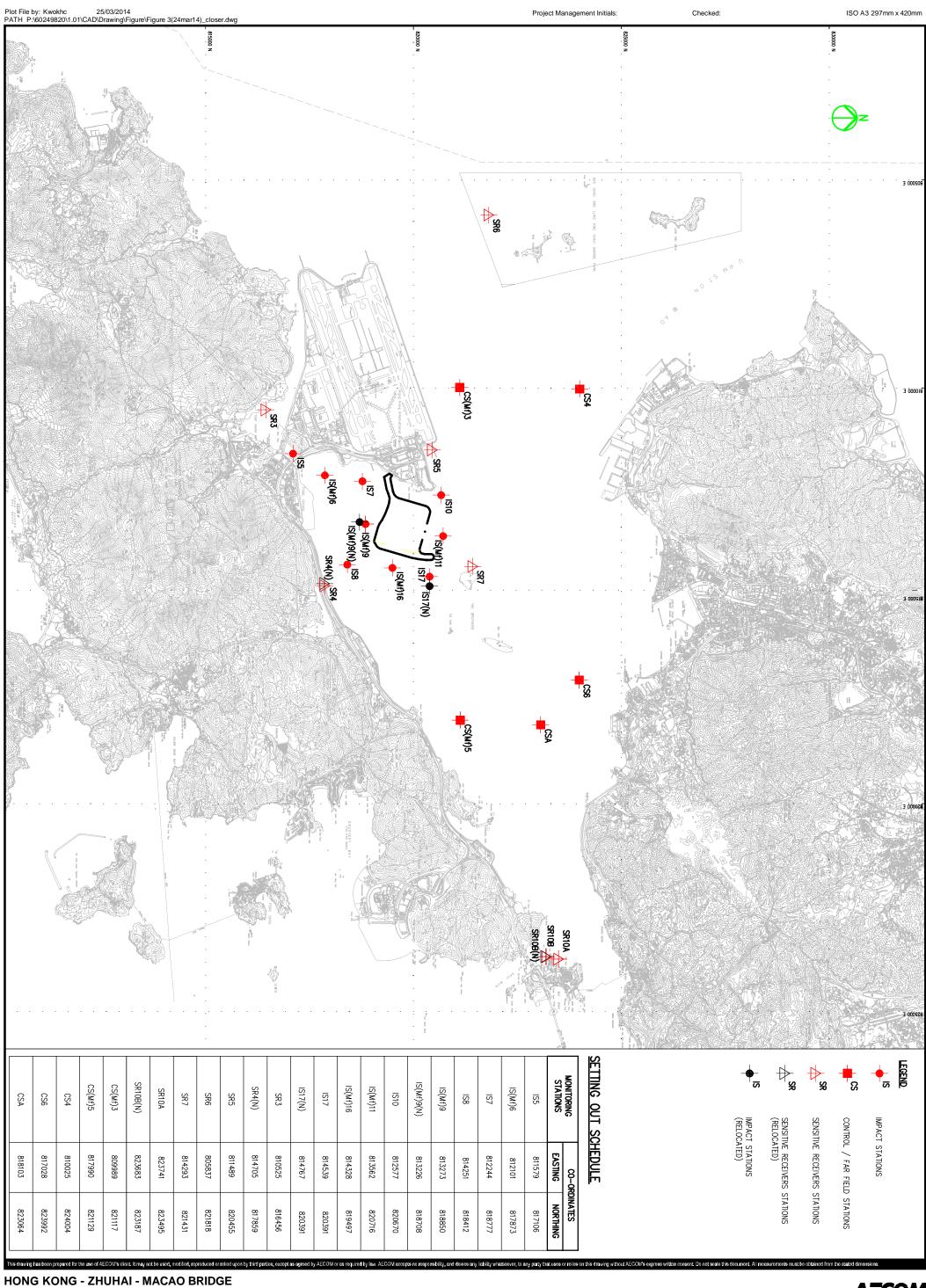
Landscape and Visual Impact

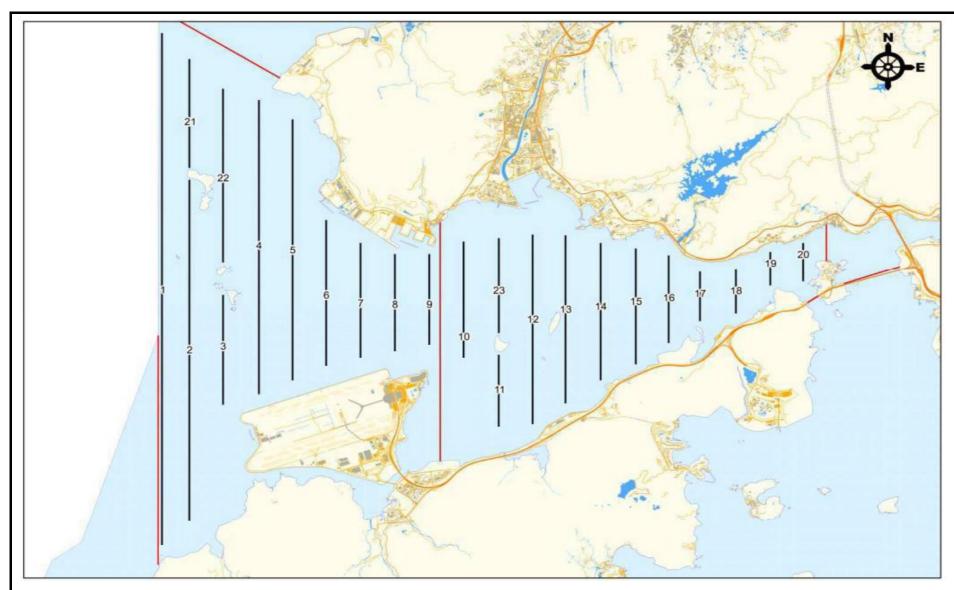
- All existing, retained/transplanted trees at the works areas should be properly fenced off and regularly inspected.
- Control night-time lighting and glare by hooding all lights.











Remarks:

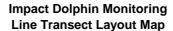
*Transect 10 is now 3.6km in length due to the HKBCF construction site.

^Coordinates for transect lines 1, 2, 7, 8, 9 and 11 have been updated in respect to the Proposal for Alteration of Transect Line for Dolphin Monitoring approved by EPD on 19 August 2015. The total transect length for both NEL and NWL combined is 108km.

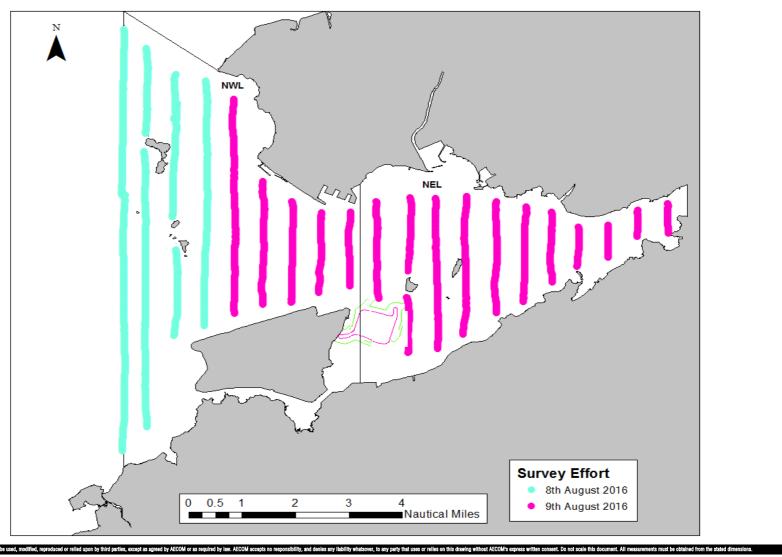
This Drawing has been prepared for the use of AECOM's client. It may not be used, modified, reproduced or relied upon by third parties, except as agreed by AECOM or as required by lew. AECOM accepts no responsibility, and denies any liability whatsover, to any party that uses or relies on this drawing without AECOM's express written consent. Do not scale this document. All measurements must be obtained from the stated dimensions.

HONG KONG - ZHUHAI - MACAO BRIDGE HONG KONG BOUNDARY CROSSING FACILITIES - RECLAMATION WORKS

Project No.: 60249820 Date: November 2015

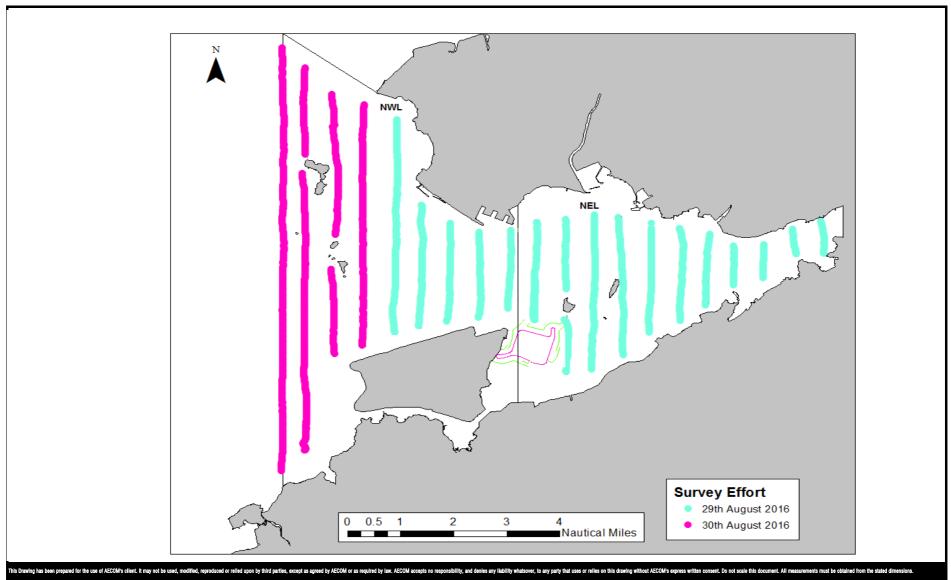






HONG KONG - ZHUHAI - MACAO BRIDGE HONG KONG BOUNDARY CROSSING FACILITIES - RECLAMATION WORKS

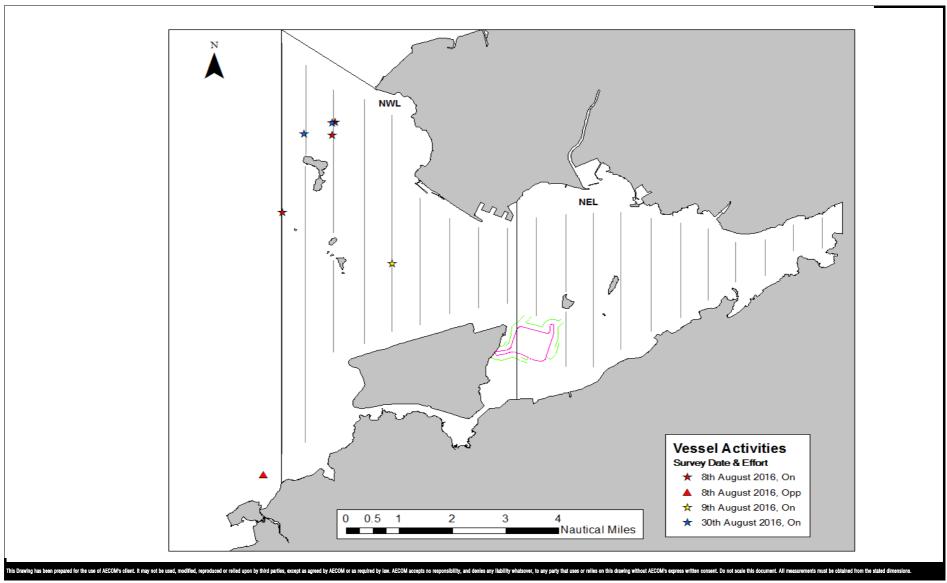
Project No.: 60249820 Date: September 2016



HONG KONG - ZHUHAI - MACAO BRIDGE HONG KONG BOUNDARY CROSSING FACILITIES - RECLAMATION WORKS

Project No.: 60249820 Date: S

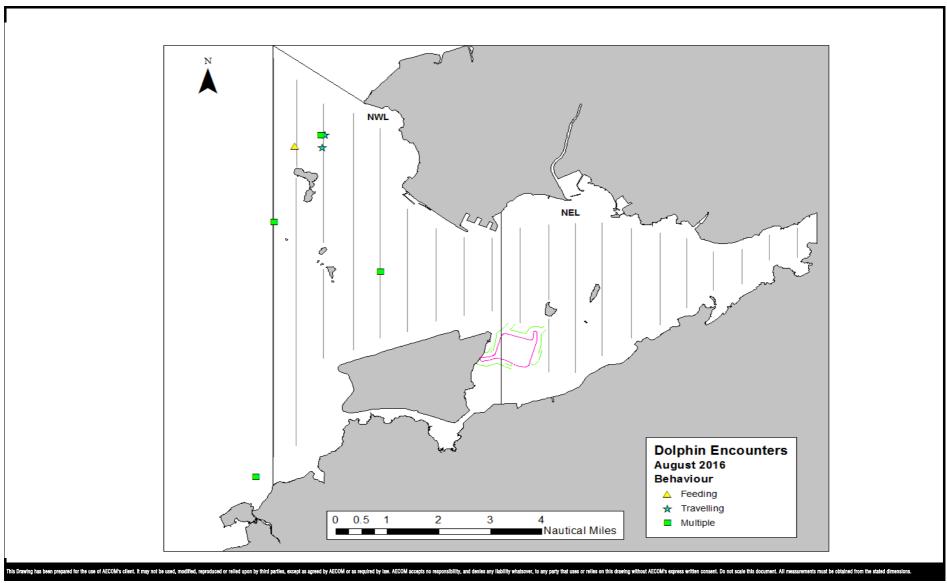
Date: September 2016



HONG KONG - ZHUHAI - MACAO BRIDGE
HONG KONG BOUNDARY CROSSING FACILITIES

- RECLAMATION WORKS

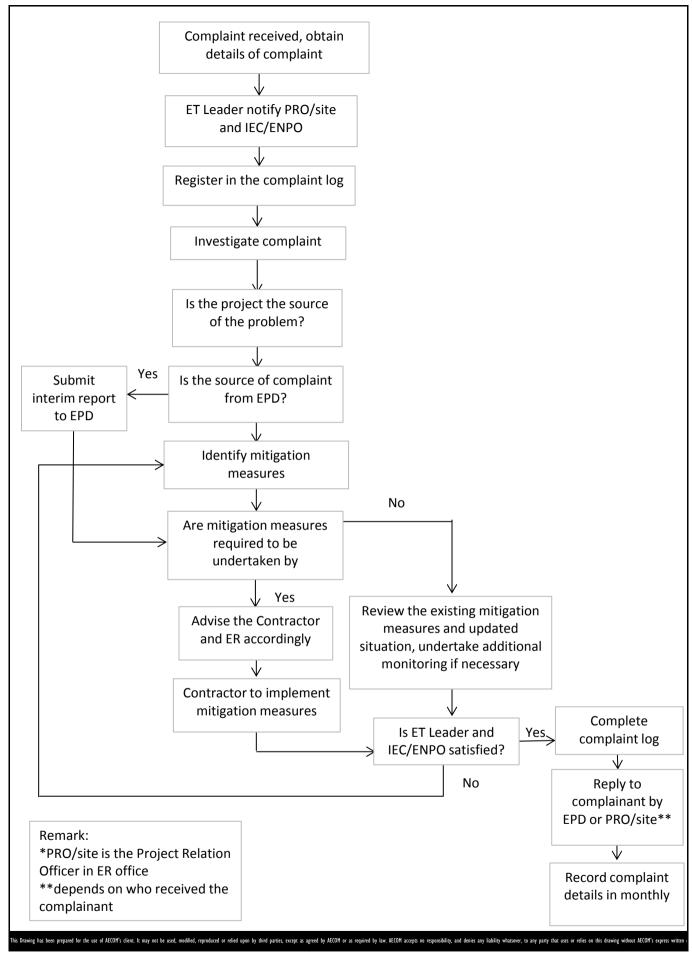
Project No.: 60249820 Date: September 2016



HONG KONG - ZHUHAI - MACAO BRIDGE HONG KONG BOUNDARY CROSSING FACILITIES - RECLAMATION WORKS

Project No.: 60249820 Date: September 2016

Impact Dolphin Monitoring Survey Behaviour Map in August 2016



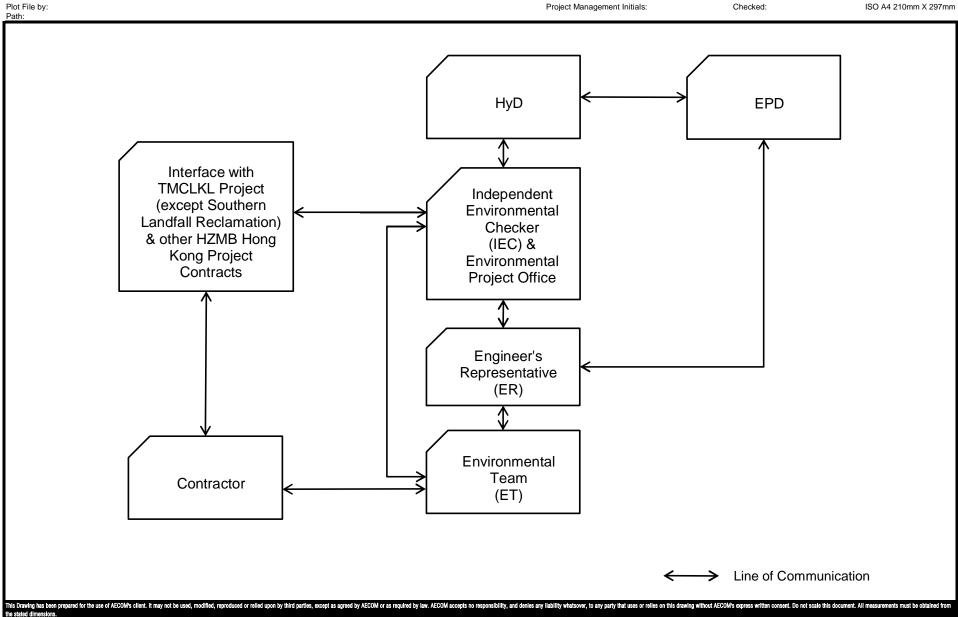
HONG KONG - ZHUHAI - MACAO BRIDGE HONG KONG BOUNDARY CROSSING FACILITIES

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- RECLAMATION WORKS

Environmental Complaint Handling Procedure

Project No.: 60249820 Date: July 2012 Figure 6



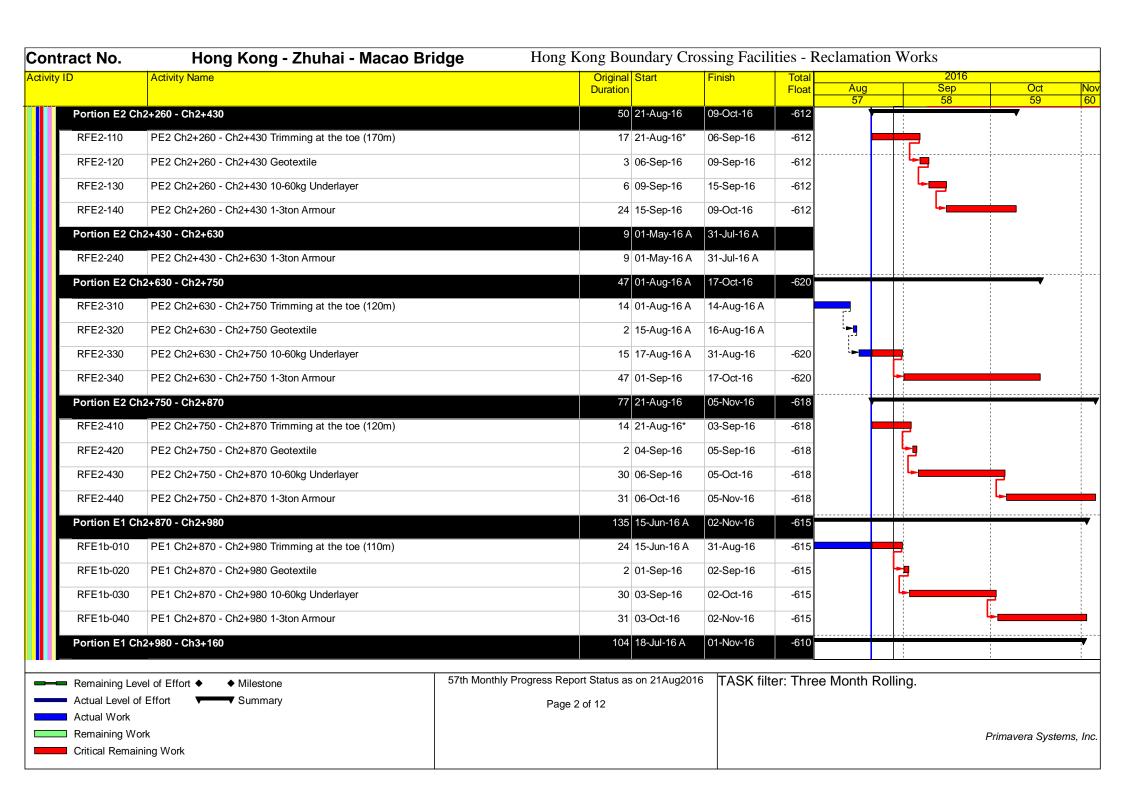
HONG KONG - ZHUHAI - MACAO BRIDGE HONG KONG BOUNDARY CROSSING FACILITIES -- RECLAMATION WORKS

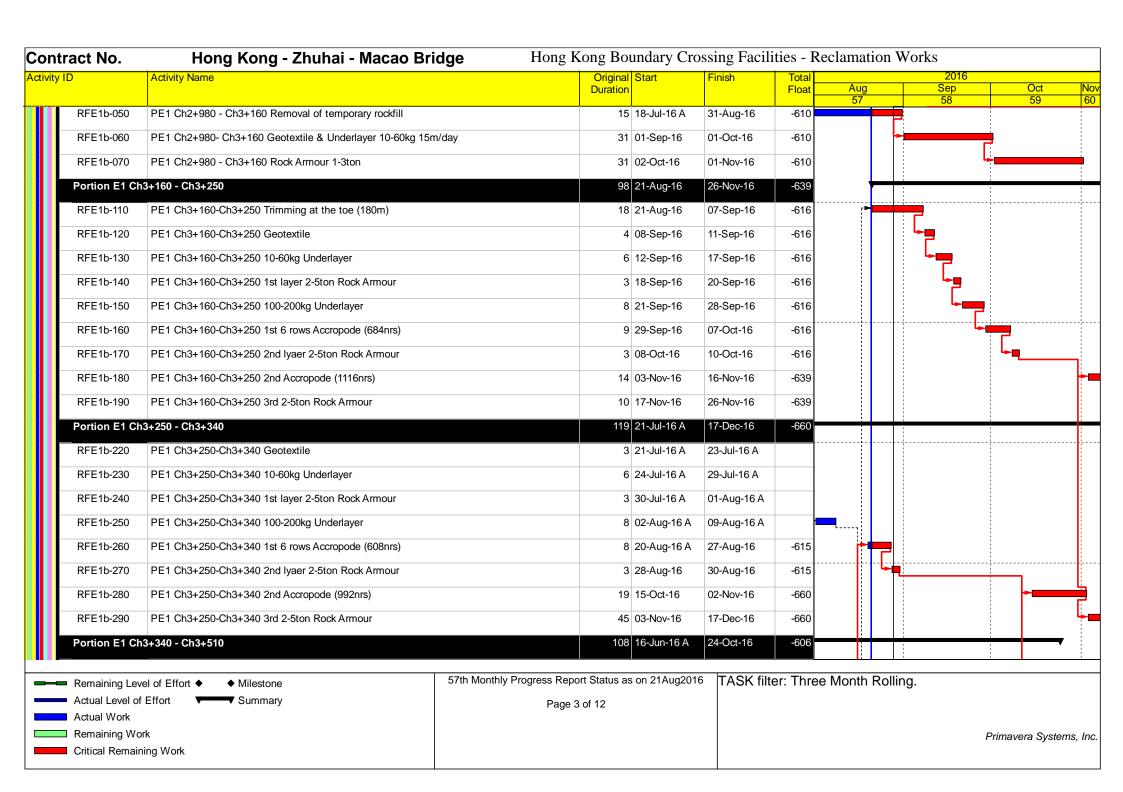
Project No.: 60249820 Date: April 2013

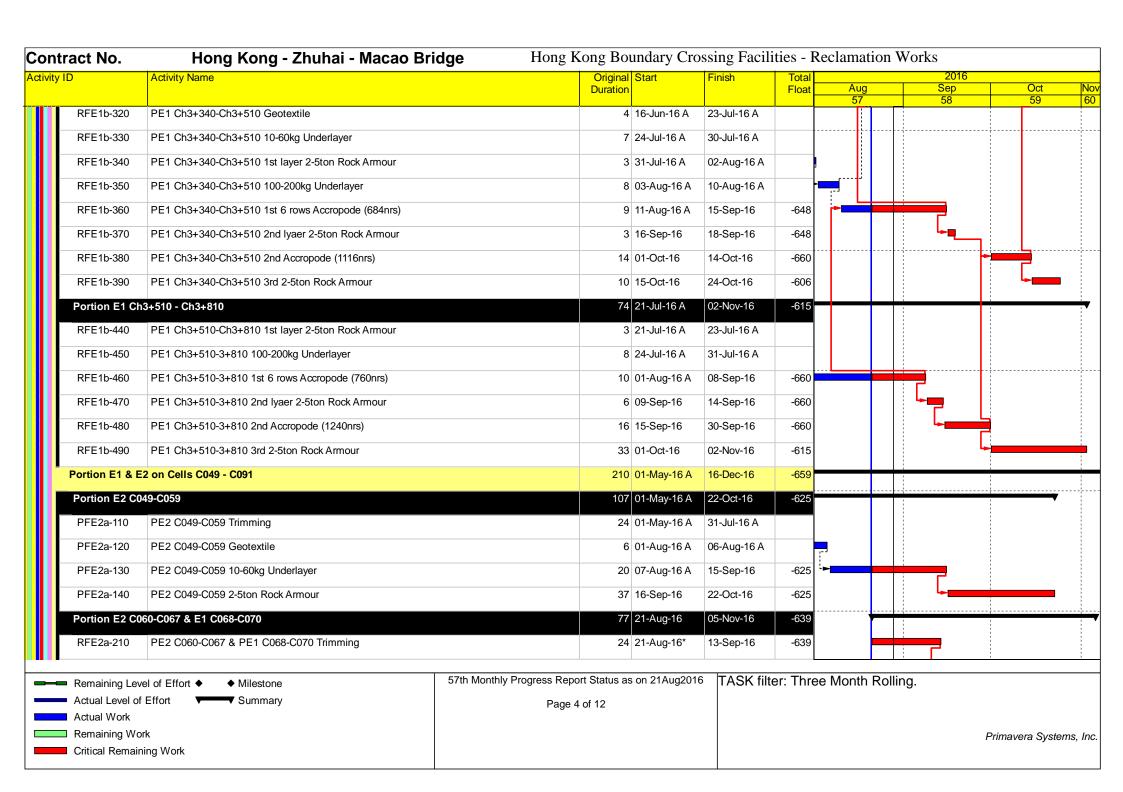
Contract Organisation for Environmental Works



| vity ID | Activity Name | | Original Start | | Finish | Total | 2016 | | | |
|---|---|----------------------------|----------------|----------------|-------------|-----------|-----------|--|-----------------|-----|
| ity ID | Activity Name | | Duration | Start | Tillisii | Float | Aug 57 | Sep 58 | Oct 59 | |
| 7th Month | ly Progress Report Status as o | n 21Aug2016 | 1745 | 21-May-12 A | 28-Feb-17 | 289 | <u> </u> | | | _ |
| | as defined in PS Clause 1.03(6) | J. Committee | 447 | 15-Nov-15 A | 03-Feb-17 | 314 | | | | |
| Portion A, E | 8, C & E | | 447 | 15-Nov-15 A | 03-Feb-17 | 314 | | | | |
| Portion A, B, | C & E | | 447 | 15-Nov-15 A | 03-Feb-17 | 314 | | <u> </u> | | _ |
| Seawall | | | 447 | 15-Nov-15 A | 03-Feb-17 | 314 | | | | _ |
| Optimizing Rub | ble Mound Seawalls | | 443 | 15-Nov-15 A | 03-Feb-17 | 314 | | | | |
| Rock Armour | | | 443 | 15-Nov-15 A | 03-Feb-17 | 314 | | | | _ |
| Seawall Portion | on A C120-C134 Ch5+050 - Ch5+650 | | 195 | 15-Nov-15 A | 15-Sep-16 | 455 | | - | | |
| RFA0-020 | PA at C118 - C134 Underlayer (21,600m3 1,000m3/day) | | 179 | 15-Nov-15 A | 25-Jul-16 A | | | , | | |
| RFA0-030 | PA at C118 - C134 Rock Armour (1-3ton 30,840m3 & 0.3 | 3-1ton 14,466m3 244m3/day) | 179 | 01-Dec-15 A | 15-Sep-16 | 455 | | — | | |
| Seawall Portion | on B K013-K027 Ch0+450 - Ch1+100 | | 156 | 01-Sep-16 | 03-Feb-17 | 314 | | - | | |
| RFB0-010 | PB at K013 - K027 Removal of Temporary Rockfill (170, | 000m3, 1,500m3/day) | 114 | 01-Sep-16 | 23-Dec-16 | 314 | | · | | |
| RFB0-020 | PB at K013 - K027 Cat1 (16,900m3, 1000m3/day) | | 98 | 01-Oct-16 | 06-Jan-17 | 314 | | │ │ | | |
| RFB0-030 | PB at K013 - K027 Underlayer (200-500kg) 16,832m3 10 | 000m3/day | 98 | 15-Oct-16 | 20-Jan-17 | 314 | | | \ <u></u> | _ |
| RFB0-040 | PB at K013 - K027 Rock Armour (0.3-1 ton 33904m3 24 | 14m3/day) | 98 | 29-Oct-16 | 03-Feb-17 | 314 | | | l | L-[|
| Seawall Porti | on C2a C113-C119 Ch4+710 - Ch5+050 | | 141 | 21-Jul-16 A | 22-Dec-16 | 357 | | | | |
| RFC2a010 | PC2a at C113 - C117 Removal of Temporary Rockfill (19 | 0,000m3, 1,500m3/day) | 127 | 21-Jul-16 A | 24-Nov-16 | 327 | | | | |
| RFC2a030 | PC2a at C113 - C117 Underlayer 21,600m3 1000m3/day | / | 111 | 20-Aug-16 A | 08-Dec-16 | 327 | - | | | |
| RFC2a040 | PC2a at C113 - C117 Rock Armour (0.3-1 ton 33904m3 | 305m3/day) | 111 | 03-Sep-16 | 22-Dec-16 | 357 | | - | | |
| Conforming Slo | pping Seawalls | | 398 | 16-Nov-15 A | 17-Dec-16 | 362 | | | | _ |
| Rock Armour - | Before Surcharge Period | | 398 | 16-Nov-15 A | 17-Dec-16 | 362 | | | | |
| ACP1-00030 | Precasting Accropode (18,092nos), 90nos/day | | 265 | 16-Nov-15 A | 09-Sep-16 | -572 | | | | |
| Portion E1 & | E2 In Front of Cells Ch1+990 - 3+810 | | 207 | 01-May-16 A | 17-Dec-16 | -660 | | | | _ |
| | | | | | | | | i | | _ |
| Remaining Le | | 57th Monthly Progress Re | | s on 21Aug2010 | TASK filt | er: Three | Month Rol | ling. | | |
| Actual Level of Actual Work | f Effort ▼ Summary | Pag | e 1 of 12 | | | | | | | |
| Remaining W | ork | | | | | | | D | rimavera Syster | me |







| D | Activity Name | 0 | Original | Start | Finish | Total | | | 2016 | |
|---|---|----------------------------------|----------|--------------|-------------|----------|-----------|--------|------------|---------------|
| | | Du | uration | | | Float | Aug 57 | | Sep 58 | Oct 59 |
| RFE2a-220 | PE2 C060-C067 & PE1 C068-C070 Geotextile | | 6 | 14-Sep-16 | 19-Sep-16 | -639 | | | - | |
| RFE2a-230 | PE2 C060-C067 & PE1 C068-C070 10-60kg Underlayer | | 15 | 20-Sep-16 | 04-Oct-16 | -639 | | | Ļ | ÷ |
| RFE2a-240 | PE2 C060-C067 & PE1 C068-C070 2-5ton Rock Armour | | 32 | 05-Oct-16 | 05-Nov-16 | -639 | | | | L |
| Portion E1 C0 | 71-C076 | | 77 | 01-Oct-16 | 16-Dec-16 | -659 | | | | |
| RFE1a-110 | PE1 C071-C076 Trimming | | 24 | 01-Oct-16* | 24-Oct-16 | -659 | | | ľ | |
| RFE1a-120 | PE1 C071-C076 Geotextile | | 6 | 25-Oct-16 | 30-Oct-16 | -659 | | | | |
| RFE1a-130 | PE1 C071-C076 10-60kg Underlayer | | 15 | 31-Oct-16 | 14-Nov-16 | -659 | | | | |
| RFE1a-140 | PE1 C071-C076 2-5ton Rock Armour | | 32 | 15-Nov-16 | 16-Dec-16 | -659 | | | | |
| Portion E1 C0 | 777-C079 | | 62 | 11-Jul-16 A | 30-Sep-16 | -659 | | | | - |
| RFE1a-220 | PE1 C077-C079 Geotextile | | 2 | 11-Jul-16 A | 09-Sep-16 | -653 | | H | ━ | |
| RFE1a-230 | PE1 C077-C079 10-60kg Underlayer | | 10 | 23-Jul-16 A | 15-Sep-16 | -659 | | H | | |
| RFE1a-240 | PE1 C077-C079 2-5ton Rock Armour | | 30 | 01-Sep-16 | 30-Sep-16 | -659 | | | | = -J |
| Portion E1 C0 | 080-C085 | | 20 | 19-May-16 A | 06-Aug-16 A | | ₹ | | | |
| RFE1a-340 | PE1 C080-C085 2-5ton Rock Armour | | 20 | 19-May-16 A | 06-Aug-16 A | - | • | | | |
| Portion E1 C0 | 986-C091 | | 157 | 01-May-16 A | 24-Oct-16 | -606 | | + | | |
| RFE1a-410 | PE1 C086-C091 Trimming | | 12 | 01-May-16 A | 07-Sep-16 | -606 | | | - | |
| RFE1a-420 | PE1 C086-C091 Geotextile | | 3 | 08-Sep-16 | 10-Sep-16 | -606 | | | Ļ | |
| RFE1a-430 | PE1 C086-C091 10-60kg Underlayer | | 10 | 11-Sep-16 | 20-Sep-16 | -606 | | | └ ━ | |
| RFE1a-440 | PE1 C086-C091 2-5ton Rock Armour | | 34 | 21-Sep-16 | 24-Oct-16 | -606 | | | | |
| Portion C2c & | C2b At C090 - C101 (Ch3+810 - Ch4+262) | | 92 | 21-Apr-16 A | 30-Sep-16 | -39 | | + | | + |
| BF-RFC2c-060 | PC2c at C091 - C101 in front of cells Rock Armour 2-5ton 20 | ,296m3 221m3/day | 92 | 21-Apr-16 A | 30-Sep-16 | -39 | | | | • |
| Portion C2a At | C102 - C112 (Ch4+262 - Ch4+710) | | 225 | 21-Mar-16 A | 31-Oct-16 | 409 | | + | | |
| BF-RFC2a-010 | PC2a at C102 - C112 on cells Removal of temporary rockfill | | 41 | 21-Mar-16 A | 15-Sep-16 | 455 | | | | |
| | | | | | | | | | | _i |
| Remaining Lev | | 57th Monthly Progress Report Sta | | on 21Aug2016 | I ASK filte | er: Thre | Month R | collin | g. | |
| Actual Level of Actual Work | f Effort Summary | Page 5 of 12 | 2 | | | | | | | |
| Remaining Wo | | | | | | | | | | Primavera Sys |

| y ID | Activity Name | | Original | Start | Finish | Total | | | 2016 | |
|---|--|---------------------------|---------------|--------------------|--------------|------------|------------|--------------|-----------|----------|
| | | | Duration | | | Float | Aug 57 | | Sep 58 | Oct 59 |
| BF-RFC2a-020 | PC2a at C102 - C112 on cells Geotextile & Underlayer 10-60kg | 10907m3 200m3/day | 55 | 21-Apr-16 A | 15-Sep-16 | -298 | | | | \pm |
| BF-RFC2a-030 | PC2a at C102 - C112 on cells Rock Armour 2-5ton m3 25,210m | 3 221m3/day | 42 | 21-Aug-16 | 01-Oct-16 | -299 | | | | - |
| BF-RFC2a-040 | PC2a at C102 - C112 in front of cells Removal of temporary roo | kfill 31,987m3 | 32 | 21-Apr-16 A | 31-Aug-16 | 470 | | | | |
| BF-RFC2a-050 | PC2a at C102 - C112 Accropode 5,226nrs 60nrs/day | | 87 | 17-May-16 A | 01-Oct-16 | -329 | | | | |
| BF-RFC2a-060 | PC2c at C102 - C112 in front of cells Rock Armour 2-5ton 19,85 | 55m3 221m3/day | 30 | 02-Oct-16 | 31-Oct-16 | -329 | | | | |
| Surcharge | | | 409 | 17-Dec-15 A | 24-Jan-17 | -228 | | | | |
| Land Portion B | | | 258 | 09-Jan-16 A | 31-Aug-16 | -609 | | + | | |
| Edge Areas | | | 258 | 09-Jan-16 A | 31-Aug-16 | -609 | | + | | |
| SURB0-090 | Completion of Section B in Edge Areas | | 0 | | 31-Aug-16* | -609 | | | | |
| at K013 - K027 | | | 258 | 09-Jan-16 A | 31-Aug-16 | -720 | | + | | |
| SUEB0-040 | PB Edge Area K013-K027 Sand Surcharge Period at +11.5mP | D 8mths (4Sep2016) | 240 | 09-Jan-16 A | 28-Jul-16 A | | | | | |
| SUEB0-042 | PB Edge Area K013-K027 Sand Surcharge Removal instructed | by the Engineer | 0 | 27-Jul-16 A | | | | | | |
| SUEB0-050 | PB Edge Area K013-K027 Sand Surcharge Removal 84,258m3 | + 20,880m3(C1a) | 31 | 28-Jul-16 A | 31-Aug-16 | -661 | | | | |
| SUEB0-120 | PB Edge Area K013-K027 Completion (Target Date = 31Dec20 | 14) | 0 | | 31-Aug-16* | -720 | | • | | |
| at K028 - K035 | | | 37 | 13-Jul-16 A | 31-Aug-16 | -720 | | - | | |
| SUEB0-100 | PB Edge Area K028-K035 Sand Surcharge Removal 49,985m3 | + 14,904m3 5,000m3/day | 13 | 13-Jul-16 A | 31-Aug-16 | -661 | | | | |
| SUEB0-110 | PB Edge Area K028-K035 Completion (Target Date = 31Dec20 | 14) | 0 | | 31-Aug-16* | -720 | | لم | | |
| at K047 - K052 (| w Deep Cement Mixing) | | 0 | 21-Jul-16 A | 21-Jul-16 A | | | | | |
| DCM-2072 | PB Edge Area K047-K052 36-73m Surcharge Removal instruct | ed by the Engineer | 0 | | 21-Jul-16 A | | | | | |
| Land Portion C2a | 1 | | 409 | 17-Dec-15 A | 28-Dec-16 | -402 | | | | + |
| Edge Areas | | | 409 | 17-Dec-15 A | 28-Dec-16 | -402 | | | | |
| Deep Cement M | lixing Works at C101 - C103 | | 253 | 17-Dec-15 A | 25-Aug-16 | -696 | | 7 | | |
| DCM-3070 | PC2a Edge Area C101-C103 Surcharge Period 8mths (Land Si | de) (12Aug2016) | 240 | 17-Dec-15 A | 12-Aug-16 A | _ | | | | |
| | · · · · · · · · · · · · · · · · · · · | 57th Monthly Progress Rep | ort Status as | s on 21Aug2014 | 6 TASK filte | or: Three | Month P | olling | | |
| Remaining LevelActual Level of | | , , | | , 511 2 1/1ug20 10 | | ei. iillee | IVIOLIUI K | Jilliy. | | |
| Actual Work | | Page | 6 of 12 | | | | | | | |

| y ID | Activity Name | | Original | Start | Finish | Total | | 2016 | | |
|-----------------------------|--|----------------------------|---------------|-------------|-------------|-----------|------------------|-----------|-----------|---|
| | | | Duration | | | Float | Aug 57 | Sep 58 | Oct 59 | |
| DCM-3072 | PC2a Edge Area C101-C103 Instructed by the Engineer | | 0 | 21-Aug-16 | | -696 | 1 | | | _ |
| DCM-3080 | PC2a Edge Area C101-C103 Surcharge Removal 36,000m3 | | 5 | 21-Aug-16 | 25-Aug-16 | -696 | L- | | | |
| DCM-3090 | PC2a Edge Area C101-C103 Completion at 43-73m | | 0 | | 25-Aug-16 | -696 | • | | ļ | |
| VO - Deep Cen | nent Mixing Works at C104 - C107 | | 246 | 13-Mar-16 A | 13-Nov-16 | -599 | | | | _ |
| DCM-4180 | PC2a Edge Area C104-C107 Surcharge Period 8mths (Land S | Gide)(07Nov2016) | 240 | 13-Mar-16 A | 07-Nov-16 | -599 | | | | |
| DCM-4190 | PC2a Edge Area C104-C107 Surcharge Removal 26,667m3 5, | ,000m3/day | 6 | 08-Nov-16 | 13-Nov-16 | -599 | | | | |
| DCM-4200 | PC2a Edge Area C104-C107 Completion of 43-73m | | 0 | | 13-Nov-16* | -599 | | | | |
| VO - Deep Cen | nent Mixing Works at C108 - C109 | | 243 | 21-Mar-16 A | 18-Nov-16 | -604 | | | | |
| DCM-5180 | PC2a Edge Area C108-C109 Surcharge Period 8mths (Land S | Side) 15Nov2016 | 240 | 21-Mar-16 A | 15-Nov-16 | -604 | | | | |
| DCM-5190 | PC2a Edge Area C108-C109 Surcharge Removal 13333m3 5,0 | 000m3/day | 3 | 16-Nov-16 | 18-Nov-16 | -604 | | | | |
| DCM-5200 | PC2a Edge Area C108-C109 Completion of 43-73m | | 0 | | 18-Nov-16* | -604 | | | | |
| at C110 - C112 | Cellular Seawall | | 240 | 03-May-16 A | 28-Dec-16 | -647 | | | | |
| VO - Deep Ce | ment Mixing Works at C110 - C112 | | 240 | 03-May-16 A | 28-Dec-16 | -647 | | | | |
| DCM-4280 | PC2a Edge Area C110-C112 Surcharge Period 8mths (Land S | ide) 28Dec2016 | 240 | 03-May-16 A | 28-Dec-16 | -647 | | | | |
| CH4+710 - CH5 | 5+110 Rubble Mound Seawall | | 240 | 30-Apr-16 A | 25-Dec-16 | -399 | | | | _ |
| Deep Cement | Mixing at CH4+710 - CH4+880 | | 240 | 30-Apr-16 A | 25-Dec-16 | -399 | | | | _ |
| DCM-5070 | PC2a Ch4+710 - Ch4+880 Surcharge Monitoring 8mths (25De | ec2016) | 240 | 30-Apr-16 A | 25-Dec-16 | -399 | | | | |
| Land Portion C1 | 1a | | 6 | 21-Aug-16 | 26-Aug-16 | -705 | | | | |
| Reclamation Ar | reas | | 6 | 21-Aug-16 | 26-Aug-16 | -705 | | | | |
| C4 | | | 6 | 21-Aug-16 | 26-Aug-16 | -705 | ├ | | | |
| SURC1a-152 | PC1a South Sand Surcharge Removal instruction by the Engir | neer | 0 | 21-Aug-16 | | -706 | _ | | | |
| SURC1a-160 | PC1a South East Land Area Sand Surcharge Removal | | 3 | 21-Aug-16 | 23-Aug-16 | -648 | L _p | | | |
| SURC1a-170 | PC1a South West Land Area Sand Surcharge Removal | | 3 | 24-Aug-16 | 26-Aug-16 | -648 | - - | | ¦ | |
| | | | | | | | | | 1 | _ |
| Remaining Lev | | 57th Monthly Progress Repo | ort Status as | on 21Aug201 | 6 TASK filt | er: Three | Month Rollin | ıg. | | |
| | | | 7 of 12 | | | | | | | |
| Actual Work Remaining Work | | | | | | | | | | |

| ity ID | Activity Name | Original | Start | Finish | Total | | | 2016 | | |
|---|---|-----------------------------------|-------------------|--------------|------------|------------|-------------|----------------|-----------|----------|
| • | | Duration | | | Float | Aug 57 | | Sep 58 | Oct 59 | |
| SURC1a-180 | Completion of Section C1aC4 | 0 | | 26-Aug-16 | -705 | <u> </u> | | 56 | 39 | |
| Land Portion E2 | 2 | 370 | 21-Jan-16 A | 22-Dec-16 | -195 | | | | | |
| North Part | | 370 | 21-Jan-16 A | 22-Dec-16 | -195 | | | | | - |
| Edge Areas - N | Jorth (C3) | 150 | 01-Jun-16 A | 22-Dec-16 | -198 | | - | 1 | | |
| SUEE2-370 | PE2 North Edge C3 Sand Surcharge Laying up to +11.5mPD 18,248r | m3 5,000m3/day 4 | 01-Jun-16 A | 25-Jul-16 A | | | | | | |
| SUEE2-380 | PE2 North Edge C3 Sand Surcharge Period as +11.5mPD 5mths (22) | Dec2016) 150 | 26-Jul-16 A | 22-Dec-16 | -198 | | | | | <u> </u> |
| Edge Areas - N | lorth (TM) | 150 | 21-Apr-16 A | 20-Sep-16 | -593 | | | | | |
| SUEE2-480 | PE2 North Edge TM Sand Surcharge Period as +11.5mPD 5mths (17 | 'Sep2016) 150 | 21-Apr-16 A | 17-Sep-16 | -593 | | | | | |
| SUEE2-490 | PE2 North Edge TM Sand Surcharge Removal 14,600m3 5,000m3/da | ay 3 | 18-Sep-16 | 20-Sep-16 | -543 | | | L- | | |
| Edge Areas - E | East (TM) C064-C067 | 150 | 21-Apr-16 A | 20-Sep-16 | -593 | | | | | |
| SUEE2-150 | PE2 East Edge C064-C067 Sand Surcharge Period as +11.5mPD 5m | nths (17Sep2016) 150 | 21-Apr-16 A | 17-Sep-16 | -593 | | | | | |
| SUEE2-160 | PE2 East Edge C064-C067 Sand Surcharge Removal 14,600m3 5,00 | 00m3/day 3 | 18-Sep-16 | 20-Sep-16 | -543 | | | L ₋ | | |
| Land Areas - E | ast (TM) C057 - C063 Ch2+300 to Ch2+600 | 12 | 21-Aug-16 | 01-Sep-16 | -574 | + | | | | |
| SURE2-055 | PE2 Land C057-C063 Removal of Surcharge instructed by the Engine | eer 0 | 21-Aug-16* | | -573 | | | | | |
| SURE2-060 | PE2 Land C057-C063 Tunnel Sand Surcharge Removal at tunnel area | a 107,437m3 11 | 21-Aug-16 | 01-Sep-16 | -525 | ·········· | | | | |
| Land Areas - V | 10.000m3/day Vest (C3) | 229 | 21-Jan-16 A | 05-Sep-16 | -87 | | - | ▼ | | |
| SURE2-180 | PE2 Land C061-C064 Non-Tunnel Sand Surcharge Period as +11.5m | PD non tunnel area 210 | 21-Jan-16 A | 17-Aug-16 A | - | <u>,</u> | | | | |
| SURE2-190 | 7mths 17Aug2016 PE2 Land C061-C064 Non-Tunnel Sand Surcharge Removal non tunn | nel Area 147,437m3 15 | 21-Aug-16 | 05-Sep-16 | -81 | ▶ | | L , | | |
| SURE2-299 | 10,000m3/day Completion of Section PE2 in Land C061-C064 Non-tunnel Reclamati | ion Area 0 | | 05-Sep-16 | -87 | | • | لبه | | |
| South Part | | 150 | 21-Apr-16 A | 29-Sep-16 | -602 | | | · | | |
| Edge Areas Ea | st C058 to C063 | 150 | 21-Apr-16 A | 29-Sep-16 | -602 | | | | | |
| SUEE2-040 | PE2 Edge C058-C063 Sand Surcharge Period as +11.5mPD 5mths (| 17Sep2016) 150 | 21-Apr-16 A | 17-Sep-16 | -601 | | | | | |
| SUEE2-050 | PE2 Edge C058-C063 Sand Surcharge Removal 100,481m3 10,000m | n3/day 11 | 18-Sep-16 | 29-Sep-16 | -551 | | | - | | |
| | | Martin Day on Parad Old | 014 2001 | 0 TAOK (1) | | N.4 (1 F | - II: | 1 | | |
| Remaining Lev | TOTAL | Monthly Progress Report Status as | on 21Aug201 | 6 TASK filte | er: inree | ivionth h | kolling. | • | | |
| | TEHOIL V Summary | Page 8 of 12 | | | | | | | | |
| Actual Level o Actual Work Remaining Wo | f Effort Summary | Page 8 of 12 | 1011 2 1 Aug 20 1 | o TASK IIII | er. Tillee | IVIOITII I | Xoming. | • | | |

| ty ID | Activity Name | ge Hong Kong Bo | Start | Finish | Total | | | 2016 | | |
|---|--|---------------------------------------|---------------|--------------|----------|-----------|--------------|-------------|--------------|---|
| , | Troumy reality | Duration | | | Float | Aug 57 | | Sep 58 | Oct 59 | |
| VO DCM Edge | Areas East C056 to C057 | 150 | 21-Apr-16 A | 21-Sep-16 | -594 | 1 | | | | |
| DCM-4380 | PE2 Edge C056-C057 Surcharge Period 7mths (Land Side) (17Se | ep2016) 150 | 21-Apr-16 A | 19-Sep-16 | -594 | | | | | |
| DCM-4390 | PE2 Edge C056-C057 Surcharge Removal 5,000m3 | | 20-Sep-16 | 21-Sep-16 | -594 | | | ┡┓ | | |
| DCM-4400 | PE2 Edge C056-C057 Completion of 43-73m | |) | 21-Sep-16 | -594 | | | لـــ | | |
| Edge Areas Eas | st C052 to C055 | 150 | 21-Apr-16 A | 22-Sep-16 | -595 | | | | | |
| SURE2-440 | PE2 Edge C052-C055 300m Zone Sand Surcharge Period as +11 | 1.5mPD 5mths 150 | 21-Apr-16 A | 17-Sep-16 | -595 | | | _ | | |
| SURE2-450 | PE2 Edge C052-C055 300m Zone Sand Surcharge Removal 52,8 | 391m3 10,000m3/day | 18-Sep-16 | 22-Sep-16 | -545 | | | - | | |
| Land Portion E1 | | 220 | 23-May-16 A | 31-Dec-16 | -695 | | | | | _ |
| Edge Areas Sou | thern Part | 220 | 23-May-16 A | 31-Dec-16 | -695 | | | | | _ |
| DCM-4460 | PE1 Edge Area West Zone Additional DCM Works 927nrs by 3 pl | lant 5 | 3 16-Jul-16 A | 15-Sep-16 | -588 | | | _ | | |
| SUEE1-030 | PE1 Edge Area at South of C071 Surcharge Laying up to +11.5m | nPD 50,000m3 4,200m3/day 12 | 2 23-May-16 A | 06-Aug-16 A | | | | | | |
| SUEE1-040 | PE1 Edge Area at South of C071 Surcharge Period as +11.5mPD | O 5mths 150 | 07-Aug-16 A | 31-Dec-16 | -712 | - | | | | |
| Land Portion C2k | b | 309 | 22-Mar-16 A | 24-Jan-17 | -315 | | | | | _ |
| Edge Areas | | 209 | 13-Jun-16 A | 24-Jan-17 | -315 | | | | | _ |
| SUEC2b-070-11 | PC2b Edge Area Sand Surcharge at 11.0mPD Observational App | proach | 13-Jun-16 A | 26-Aug-16 | -315 | | = | | | |
| SUEC2b-070-12 | PC2b Edge Area Sand Surcharge Laying 11.0mPD to 11.5mPD 2 | 2,009m3 | 27-Aug-16 | 27-Aug-16 | -315 | | 2 | | | |
| SUEC2b-080 | PC2b Edge Area Sand Surcharge Period as +11.5mPD 5mths | 150 | 28-Aug-16 | 24-Jan-17 | -315 | | - | | | |
| Reclamation Are | eas | 163 | 22-Mar-16 A | 31-Aug-16 | -231 | | — | | | |
| North | | 10 | 21-Aug-16 | 30-Aug-16 | -230 | + | — | | | |
| SURC2b-030 | PC2b Main Area North Public Surcharge Removal 42,609m3 5,00 | 00m3/day | 21-Aug-16 | 30-Aug-16 | -210 | - | - | | | |
| SURC2b-040 | Completion of Section PC2b at Reclamation Area North | |) | 30-Aug-16 | -230 | | ــ ا | | | |
| South | | 163 | 22-Mar-16 A | 31-Aug-16 | -231 | | | | | |
| SURC2b-036 | PC2b Main Area South PBF Surcharge Removal 137,244m3 5,00 | 00m3/day 46 | 22-Mar-16 A | 31-Aug-16 | -211 | | | | | |
| | | 571 M (11 D D D 10) | 014 001 | o TAOL (| | | | 1 | | _ |
| Remaining LevelActual Level of | of di Enoit V Villiodollo | 57th Monthly Progress Report Status a | s on 21Aug201 | o HASK filit | er: Inre | e Month R | oiling. | | | |
| | Lifet V Voulifinary | Page 9 of 12 | | | | | | | | |
| Actual Work Remaining Wor | rk | 1 age 3 01 12 | | | | | | Ω | imavera Syst | |
| Critical Remaini | | | | | | | | FI | mavera dyste | 4 |

| ty ID | Activity Name | Original | Start | Finish | Total | Aug | 2016 Sep | Oct | |
|-----------------------------------|---|--|-------------|-------------|-----------|-----------|--------------|----------------|-----|
| | | Duration | | | Float | Aug 57 | 5ep 58 | 59 | |
| SURC2b-050 | Completion of Section PC2b at Reclamation Area South | 0 | | 31-Aug-16 | -231 | | L | | |
| Land Portion C2c | | 369 | 21-Jan-16 A | 23-Jan-17 | -281 | | | | _ |
| Edge Areas | | 196 | 15-Jun-16 A | 23-Jan-17 | -290 | | | | _ |
| SUEC2c-030-11 | PC2c Edge Area Sand Surcharge at 11.0mPD Observational A | Approach 6 | 15-Jun-16 A | 22-Aug-16 | -291 | | | | |
| SUEC2c-030-12 | PC2c Edge Area Sand Surcharge Laying 11.0mPD to 11.5mP | D 7,232m3 4 | 23-Aug-16 | 26-Aug-16 | -249 | ┡╸ | 3 | | |
| SUEC2c-040 | PC2c Edge Area Sand Surcharge Period 2nd stage 5mths | 150 | 27-Aug-16 | 23-Jan-17 | -290 | լկ | - | | |
| Reclamation Are | eas | 260 | 21-Jan-16 A | 06-Oct-16 | -172 | | | - | |
| West | | 19 | 21-Aug-16 | 08-Sep-16 | -144 | - | - | | |
| SURC2c-W032 | PC2c Main Area PBF Surcharge Removal instructed by the Er | ngineer 0 | | 21-Aug-16 | -165 | | | | |
| SURC2c-W040 | PC2c Main Area PBF Surcharge Removal 90162m3 10,000m3 | 3/day 18 | 21-Aug-16 | 08-Sep-16 | -153 | └ | | | |
| SURC2c-W050 | Completion of Section PC2c at Reclamation Area | 0 | | 08-Sep-16 | -144 | | L. | | |
| East | | 260 | 21-Jan-16 A | 06-Oct-16 | -173 | | | - | |
| SURC2c-E030 | PC2c Main Area PBF Surcharge Period 7mths (17Aug2016) | 210 | 21-Jan-16 A | 17-Sep-16 | -173 | | | | |
| SURC2c-E040 | PC2c Main Area PBF Surcharge Removal 90163m3 10,000m3 | 3/day 18 | 18-Sep-16 | 06-Oct-16 | -161 | | | | |
| SURC2c-E050 | Completion of Section PC2c at Reclamation Area | 0 | | 06-Oct-16 | -173 | | | ليم | |
| Portion D | | 139 | 22-Jun-16 A | 07-Dec-16 | 364 | | 1 | 1 | _ |
| Site Construct | ion | 139 | 22-Jun-16 A | 07-Dec-16 | 364 | | 1 | | _ |
| C1 to C4 | | 139 | 22-Jun-16 A | 07-Dec-16 | 364 | | | | _ |
| Installations of P | recast Culverts except sloping outfalls | 4 | 19-Jul-16 A | 22-Jul-16 A | | | | | |
| Culvert C4 | | 4 | 19-Jul-16 A | 22-Jul-16 A | | | | | |
| C4-5 | | 4 | 19-Jul-16 A | 22-Jul-16 A | | | | | |
| PD-C4-5-120 | PD C4-5 Backfill Manhole upto +5.5mPD | 4 | 19-Jul-16 A | 22-Jul-16 A | | | | | |
| Removal of Temp | porary Bridge and Channel Beside Existing Seawall | 11 | 21-Jul-16 A | 31-Jul-16 A | | | | | |
| Remaining Leve | el of Effort ♦ Milestone | 57th Monthly Progress Report Status as | on 21Aug201 | 6 TASK filt | er: Three | Month R | olling. | | _ |
| Actual Level of | | Page 10 of 12 | - | | | - · · - | S | | |
| Actual Work | • | 1 ago 10 01 12 | | | | | | | |
| Remaining Wor | k | | | | | | | Primavera Sys | eto |

| PD-TD1-0999 Com Construction of Perma Vertical Seawall Type Seawall Blocks Insta PD-V2-0070 PD 0 Rockfill Type 2 behin PD-V2-0180 PD 0 Geotextile Type 1 | e V2 6+136 to 5+650 allation C1 West - Vertical Seawall Blocks V2 VSPD22-20 Type 2E & 2 | 13 12 12 2A 352nrs (20nrs/day) 1 | 21-Jul-16 A 22-Jun-16 A 27 22-Jun-16 A 18 19-Jul-16 A 19-Jul-16 A | 31-Jul-16 A 31-Jul-16 A 07-Dec-16 25-Nov-16 31-Aug-16 | 364 376 -587 | Aug 57 | Se | | Oct 59 | |
|---|---|---|---|---|--------------------|-----------------|--------------|---------------------------------------|--------|----------|
| PD-TD1-0999 Com Construction of Perma Vertical Seawall Type Seawall Blocks Insta PD-V2-0070 PD 0 Rockfill Type 2 behin PD-V2-0180 PD 0 Geotextile Type 1 | anent Seawall 2 V2 6+136 to 5+650 C1 West - Vertical Seawall Blocks V2 VSPD22-20 Type 2E & 2 and seawall | 13 12 12 2A 352nrs (20nrs/day) 1 | 0 39 22-Jun-16 A 27 22-Jun-16 A 18 19-Jul-16 A | 31-Jul-16 A 07-Dec-16 25-Nov-16 31-Aug-16 | 376 -587 | | | | | _ |
| Construction of Perma Vertical Seawall Type Seawall Blocks Insta PD-V2-0070 PD Rockfill Type 2 behin PD-V2-0180 PD Geotextile Type 1 | anent Seawall 2 V2 6+136 to 5+650 C1 West - Vertical Seawall Blocks V2 VSPD22-20 Type 2E & 2 Ind seawall | 13 12 1 2A 352nrs (20nrs/day) 1 | 39 22-Jun-16 A 27 22-Jun-16 A 18 19-Jul-16 A 18 19-Jul-16 A | 07-Dec-16 25-Nov-16 31-Aug-16 | 376 -587 | | | | | _ |
| Vertical Seawall Type Seawall Blocks Insta PD-V2-0070 PD (Rockfill Type 2 behin PD-V2-0180 PD (Geotextile Type 1 | e V2 6+136 to 5+650 Allation C1 West - Vertical Seawall Blocks V2 VSPD22-20 Type 2E & 2 Ind seawall | 12 1 2A 352nrs (20nrs/day) 1 | 27 22-Jun-16 A 18 19-Jul-16 A 18 19-Jul-16 A | 25-Nov-16 31-Aug-16 | 376 -587 | | | | | _ |
| Seawall Blocks Insta PD-V2-0070 PD (Rockfill Type 2 behin PD-V2-0180 PD (Geotextile Type 1 | allation C1 West - Vertical Seawall Blocks V2 VSPD22-20 Type 2E & 2 | 2A 352nrs (20nrs/day) 1 | 18 19-Jul-16 A 18 19-Jul-16 A | 31-Aug-16 | -587 | | | | | |
| PD-V2-0070 PD Rockfill Type 2 behin | C1 West - Vertical Seawall Blocks V2 VSPD22-20 Type 2E & 2 | 2A 352nrs (20nrs/day) 1 | 18 19-Jul-16 A | | | | — | 1 | | |
| Rockfill Type 2 behind PD-V2-0180 PD Geotextile Type 1 | nd seawall | | | 31-Aug-16 | F97 | | | | | |
| PD-V2-0180 PD Geotextile Type 1 | | | 3 01-Sep-16 | | -367 | | 7 | - | | |
| Geotextile Type 1 | C1 West - Vertical Seawall V2 Rockf ill Type 2 VSOP22-20 1,4 | | 0 01 0cp 10 | 03-Sep-16 | -571 | | • | | | |
| | | 400m3 | 3 01-Sep-16 | 03-Sep-16 | -571 | | - ja | | | |
| PD-V2-0230 PD | | | 2 04-Sep-16 | 05-Sep-16 | -571 | | ₩ | | | |
| | C1 West - Vertical Seawall V2 Geotextile Type 1 VSOP22-20 1 | 1,000m2 | 2 04-Sep-16 | 05-Sep-16 | -571 | | - | | | |
| Reclamation upto +3 | 3.25mPD | | 8 06-Sep-16 | 14-Sep-16 | -571 | | | | | |
| PD-V2-0280 PD | C1 West - Vertical Seawall V2 backfill with compaction upto +3 | 3.25mPD VSOP22-20 | 8 06-Sep-16 | 14-Sep-16 | -571 | | | | ····· | |
| Insitu Concrete Copi | ing | 8 | 36 01-Jul-16 A | 25-Nov-16 | 374 | | + | | | _ |
| PD-V2-0330 PD | C1 West - Insitu Coping VSOP22-20 8bays | 1 | 16 09-Nov-16 | 25-Nov-16 | 374 | | | | | |
| PD-V2-0340 PD | C1/C2 - Insitu Coping VSOP20-16 11bays | 2 | 22 01-Jul-16 A | 24-Aug-16 | 205 | | | | | |
| PD-V2-0350 PD | C2/C3 - Insitu Coping VSOP16-11 17bays | 3 | 34 25-Aug-16 | 30-Sep-16 | 205 | - - | | | | |
| PD-V2-0360 PD | C3/C4 - Insitu Coping VSOP11-05 16bays | 3 | 32 01-Oct-16 | 03-Nov-16 | 205 | | | - | | |
| PD-V2-0370 PD | C4 East - Insitu Coping VSOP05-01 10bays | 2 | 20 04-Nov-16 | 25-Nov-16 | 205 | | | | | |
| Reclamation upto +5 | 5.5mPD | 8 | 32 25-Aug-16 | 21-Nov-16 | 209 | 1 | + | | | _ |
| PD-V2-0390 PD | C1/2 - Coping backfill with compaction upto +5.5mPD VSOP20 | 0-16 1 | 11 25-Aug-16 | 05-Sep-16 | 247 | l _{~1} | | | | |
| PD-V2-0400 PD | C2/3 - Coping backfill with compaction upto +5.5mPD VSOP16 | 6-11 1 | 17 01-Oct-16 | 18-Oct-16 | 224 | | | | | |
| PD-V2-0410 PD | C3/4 - Coping backfill with compaction upto +5.5mPD VSOP11 | 1-05 1 | 16 04-Nov-16 | 21-Nov-16 | 209 | | | | | |
| Rock Armour | | 7 | 72 22-Jun-16 A | 01-Oct-16 | -640 | | | | | |
| | 1 - | | | | | | | · · · · · · · · · · · · · · · · · · · | | <u> </u> |
| Remaining Level of E | THORE V WINDOWN | 7th Monthly Progress Report Status | as on 21Aug201 | ▷ I ASK filt | er: Three | Month Ro | olling. | | | |
| Actual Level of EffortActual Work | t Summary | Page 11 of 12 | | | | | | | | |

| ontract No. | Hong Kong - Zhuhai - Macao Bridge | Hong Kong Bo | undary Cro | ssing Facili | ities - Re | clamation W | /orks | | |
|----------------|--|--------------|-------------|--------------|------------|-------------|-------------|-----------|---|
| ivity ID | Activity Name | Original | | Finish | Total | | 2016 | | |
| | | Duration | | | Float | Aug 57 | Sep 58 | Oct 59 | _ |
| PD-V2-0910 | PD C1 West - Vertical Seawall V2 Armour VSOP22-20 | 29 | 01-Sep-16 | 01-Oct-16 | -587 | - | | - | |
| PD-V2-0950 | PD C4 East - Vertical Seawall V2 Armour VSOP05-01 | 29 | 22-Jun-16 A | 31-Jul-16 A | | | ; | | |
| PD-V2-0990 | Completion of North Vertical Seawall | 0 | | 01-Oct-16* | -640 | | į. | | |
| Sloping Seawa | all Type S1 0+000 to 0+420 | 87 | 05-Sep-16 | 07-Dec-16 | -569 | | <u> </u> | | |
| Removal of S | outh Temporary Seawall S1 | 35 | 15-Sep-16 | 21-Oct-16 | -569 | | — | | |
| PD-S1-0020 | PD C2/3 - Removal of S1 Temporary Seawall | 14 | 15-Sep-16* | 29-Sep-16 | -569 | | | <u> </u> | |
| PD-S1-0025 | PD C3/4 - Removal of S1 Temporary Seawall | 14 | 30-Sep-16 | 14-Oct-16 | -569 | | <u>-</u> -1 | | |
| PD-S1-0030 | PD C4 East - Removal of S1 Temporary Seawall | 7 | 15-Oct-16 | 21-Oct-16 | -569 | | | L- | |
| S1 Rockfill Ty | pe 1 | 87 | 05-Sep-16 | 07-Dec-16 | -569 | | ▼ | | |
| PD-S1-1020 | PD C1/2 - Sloping Seawall Type S1 Reconstruction | 21 | 05-Sep-16* | 27-Sep-16 | -567 | | | | |
| PD-S1-1030 | PD C2/3 - Sloping Seawall Type S1 Reconstruction | 21 | 30-Sep-16 | 21-Oct-16 | -569 | | احا | | |
| PD-S1-1040 | PD C3/4 - Sloping Seawall Type S1 Reconstruction | 21 | 22-Oct-16 | 13-Nov-16 | -569 | | | ┡╸ | |
| PD-S1-1045 | PD C4 East - Sloping Seawall Type S1Reconstruction | 22 | 14-Nov-16 | 07-Dec-16 | -569 | | | ļ | |
| Works Area | WA2 (Tung Chung) | 1434 | 21-May-12 A | 28-Feb-17 | 0 | | | | |
| Zone A | , , , | 1434 | 21-May-12 A | 28-Feb-17 | 0 | | | | |
| A1880 | Maintenance of Engineer's Accommodation | 1434 | 21-May-12 A | 28-Feb-17 | 0 | | | | |
| Works Area | TKO Fill Bank | 1254 | 25-Sep-12 A | 30-Nov-16 | 0 | | | | |
| WA-TKO-1040 | Operate and Maintain Public Fill Sorting Facilities in Zone A, B1 & B2 | 1254 | 25-Sep-12 A | 30-Nov-16 | 0 | | | i | |

| Remaining Level of Effort ◆ ◆ Milestone | 57th Monthly Progress Report Status as on 21Aug2016 | TASK filter: Three Month Rolling. |
|---|---|-----------------------------------|
| Actual Level of Effort Summary | Page 12 of 12 | |
| Actual Work | | |
| Remaining Work | | Primavera Systems, Inc. |
| Critical Remaining Work | | |
| | | |

Appendix C - Implementation Schedule of Environmental Mitigation Measures

| EIA Ref. | EM&A Log | Environmental Mitigation Measures | Location | Implementation |
|---------------|----------|--|------------------------|----------------|
| | Ref | | | Status |
| Air Quality | | | | |
| S5.5.6.1 of | A1 | The contractor shall follow the procedures and requirements given in the Air Pollution | All construction sites | V |
| HKBCFEIA | | Control (Construction Dust) Regulation | | |
| S5.5.6.2 of | A2 | Proper watering of exposed spoil should be undertaken throughout the construction | All construction sites | V |
| HKBCFEIA | | phase: | | |
| and S4.8.1 of | | Any excavated or stockpile of dusty material should be covered entirely by | | |
| TKCLKLEIA | | impervious sheeting or sprayed with water to maintain the entire surface wet and | | |
| | | then removed or backfilled or reinstated where practicable within 24 hours of the | | |
| | | excavation or unloading; | | |
| | | Any dusty materials remaining after a stockpile is removed should be wetted with | | |
| | | water and cleared from the surface of roads; | | |
| | | A stockpile of dusty material should not be extend beyond the pedestrian barriers, | | |
| | | fencing or traffic cones. | | |
| | | Where practicable, vehicle washing facilities with high pressure water jet should be | | |
| | | provided at every discernible or designated vehicle exit point. The area where | | |
| | | vehicle washing takes place and the road section between the washing facilities | | |
| | | and the exit point should be paved with concrete, bituminous materials or | | |
| | | hardcores; | | |
| | | When there are open excavation and reinstatement works, hoarding of not less | | |
| | | than 2.4m high should be provided as far as practicable along the site boundary | | |

| EIA Ref. | EM&A Log | Environmental Mitigation Measures | Location | Implementation |
|----------|----------|---|----------|----------------|
| | Ref | | | Status |
| | | with provision for public crossing. Good site practice shall also be adopted by the | | |
| | | Contractor to ensure the conditions of the hoardings are properly maintained | | |
| | | throughout the construction period; | | |
| | | The portion of any road leading only to construction site that is within 30m of a | | |
| | | vehicle entrance or exit should be kept clear of dusty materials; | | |
| | | Surfaces where any pneumatic or power-driven drilling, cutting, polishing or other | | |
| | | mechanical breaking operation takes place should be sprayed with water or a dust | | |
| | | suppression chemical continuously; | | |
| | | Any area that involves demolition activities should be sprayed with water or a dust | | |
| | | suppression chemical immediately prior to, during and immediately after the | | |
| | | activities so as to maintain the entire surface wet; | | |
| | | Where a scaffolding is erected around the perimeter of a building under | | |
| | | construction, effective dust screens, sheeting or netting should be provided to | | |
| | | enclose the scaffolding from the ground floor level of the building, or a canopy | | |
| | | should be provided from the first floor level up to the highest level of the scaffolding; | | |
| | | Any skip hoist for material transport should be totally enclosed by impervious | | |
| | | sheeting; | | |
| | | Every stock of more than 20 bags of cement or dry pulverised fuel ash (PFA) | | |
| | | should be covered entirely by impervious sheeting or placed in an area sheltered | | |
| | | on the top and the 3 sides; | | |
| | | Cement or dry PFA delivered in bulk should be stored in a closed silo fitted with an | | |

| EIA Ref. | EM&A Log | Environmental Mitigation Measures | Location | Implementation |
|----------|----------|---|----------|----------------|
| | Ref | | | Status |
| | | audible high level alarm which is interlocked with the material filling line and no overfilling is allowed; | | |
| | | All unpaved roads/exposed area shall be watered which results in dust suppression by forming moist cohesive films among the discrete grains of road surface material. | | |
| | | No burning of debris or other materials on the works areas is allowed; | | |
| | | Water spray shall be used during the handling of fill material at the site and at active cuts, excavation and fill sites where dust is likely to be created; | | |
| | | Open dropping heights for excavated materials shall be controlled to a maximum height of 2m to minimise the fugitive dust arising from unloading; | | |
| | | During transportation by truck, materials shall not be loaded to a level higher than the side and tail boards, and shall be dampened or covered before transport. | | |
| | | Materials having the potential to create dust shall not be loaded to a level higher than the side and tail boards, and shall be covered by a clean tarpaulin. The | | |
| | | tarpaulin shall be properly secured and shall extend at least 300mm over the edges of the side and tail boards; | | |
| | | Loading, unloading, transfer, handling or storage of bulk cement or dry PFA should be carried out in a totally enclosed system or facility, and any vent or exhaust | | |
| | | should be fitted with an effective fabric filter or equivalent air pollution control system; and | | |
| | | Exposed earth should be properly treated by compaction, turfing, hydroseeding, vegetation planting or sealing with latex, vinyl, bitumen, shotcrete or other suitable | | |

| EIA Ref. | EM&A Log | Environmental Mitigation Measures | Location | Implementation |
|---------------|----------|--|------------------------|----------------|
| | Ref | | | Status |
| | | surface stabiliser within six months after the last construction activity on the | | |
| | | construction site or part of the construction site where the exposed earth lies. | | |
| S5.5.6.3 of | A3 | The Contractor should undertake proper watering on all exposed spoil and associated | All construction sites | V |
| HKBCFEIA | | work areas (with at least 8 times per day) throughout the construction phase. | | |
| and S4.8.1 of | | | | |
| TKCLKLEIA | | | | |
| S5.5.6.4 of | A4 | Implement regular dust monitoring under EM&A programme during the construction | Selected | V |
| HKBCFEIA | | stage. | representative dust | |
| and S4.11 of | | | monitoring station | |
| TKCLKLEIA | | | | |
| S5.5.7.1 of | A5 | The following mitigation measures should be adopted to prevent fugitive dust emissions | All construction sites | N/A |
| HKBCFEIA | | for concrete batching plant: | | |
| | | Loading, unloading, handling, transfer or storage of any dusty materials should be | | |
| | | carried out in totally enclosed system; | | |
| | | All dust-laden air or waste gas generated by the process operations should be | | |
| | | properly extracted and vented to fabric filtering system to meet the emission limits | | |
| | | for TSP; | | |
| | | Vents for all silos and cement/ pulverised fuel ash (PFA) weighing scale should be | | |
| | | fitted with fabric filtering system; | | |
| | | The materials which may generate airborne dusty emissions should be wetted by | | |
| | | water spray system; | | |

| EIA Ref. | EM&A Log | Environmental Mitigation Measures | Location | Implementation |
|--------------|----------------|--|------------------------|------------------|
| | Ref | | | Status |
| | | All receiving hoppers should be enclosed on three sides up to 3m above unloading | | |
| | | point; | | |
| | | All conveyor transfer points should be totally enclosed; | | |
| | | All access and route roads within the premises should be paved and wetted; and | | |
| | | Vehicle cleaning facilities should be provided and used by all concrete trucks | | |
| | | before leaving the premises to wash off any dust on the wheels and/or body. | | |
| S5.5.2.7 of | A6 | The following mitigation measures should be adopted to prevent | All construction sites | N/A |
| HKBCFEIA | | fugitive dust emissions at barging point: | | (Construction in |
| | | All road surface within the barging facilities will be paved; | | process) |
| | | Dust enclosures will be provided for the loading ramp; | | |
| | | Vehicles will be required to pass through designated wheels wash facilities; and | | |
| | | Continuous water spray at the loading points. | | |
| Construction | Noise (Air bor | ne) | | |
| S6.4.10 of | N1 | Use of good site practices to limit noise emissions by considering the following: | All construction sites | V |
| HKBCFEIA | | only well-maintained plant should be operated on-site and plant should be | | |
| | | serviced regularly during the construction programme; | | |
| | | machines and plant (such as trucks, cranes) that may be in intermittent use should | | |
| | | be shut down between work periods or should be throttled down to a minimum; | | |
| | | plant known to emit noise strongly in one direction, where possible, be orientated | | |

| EIA Ref. | EM&A Log | Environmental Mitigation Measures | Location | Implementation |
|------------|----------|--|------------------------|----------------|
| | Ref | | | Status |
| | | so that the noise is directed away from nearby NSRs; | | |
| | | silencers or mufflers on construction equipment should be properly fitted and | | |
| | | maintained during the construction works; | | |
| | | mobile plant should be sited as far away from NSRs as possible and practicable; | | |
| | | material stockpiles, mobile container site officer and other structures should be | | |
| | | effectively utilised, where practicable, to screen noise from on-site construction | | |
| | | activities. | | |
| S6.4.11 of | N2 | Install temporary hoarding located on the site boundaries between noisy construction | All construction sites | V |
| HKBCFEIA | | activities and NSRs. The conditions of the hoardings shall be properly maintained | | |
| | | throughout the construction period. | | |
| S6.4.12 of | N3 | Install movable noise barriers (typically density @14kg/m²), acoustic mat or full | For plant items listed | N/A |
| HKBCFEIA | | enclosure close to noisy plants including air compressor, generators, saw. | in Appendix 6D of the | |
| | | | EIA report at all | |
| | | | construction sites | |
| S6.4.13 of | N4 | Select "Quiet plants" which comply with the BS 5228 Part 1 or TM standards. | For plant items listed | V |
| HKBCFEIA | | | in Appendix 6D of the | |
| | | | EIA report at all | |
| | | | construction sites | |
| S6.4.14 of | N5 | Sequencing operation of construction plants where practicable. | All construction sites | V |
| HKBCFEIA | | | where practicable | |
| S5.1 of | N6 | Implement a noise monitoring under EM&A programme. | Selected | V |

| EIA Ref. | EM&A Log | Environmental Mitigation Measures | Location | Implementation |
|--------------|---------------|---|------------------------|----------------|
| | Ref | | | Status |
| TMCLKLEIA | | | representative noise | |
| | | | monitoring station | |
| Waste Manag | ement (Consti | ruction Waste) | | |
| S12.6 of | WM1 | The Contractor shall identify a coordinator for the management of waste. | All construction sites | V |
| TMCLKLEIA | | | All construction sites | |
| S12.6 of | WM2 | The Contractor shall apply for and obtain the appropriate licenses for the disposal of | All construction sites | V |
| TMCLKLEIA | | public fill, chemical waste and effluent discharges. | All construction sites | |
| S12.6 of | WM3 | EM&A of waste handling, storage, transportation, disposal procedures and | | V |
| TMCLKLEIA | | documentation through the site audit programme shall be undertaken. | All construction sites | |
| | | | | |
| S8.3.8 of | WM4 | Construction and Demolition Material | | V |
| HKBCFEIA | | The following mitigation measures should be implemented in handling the waste: | | |
| and S12.6 of | | Maintain temporary stockpiles and reuse excavated fill material for backfilling and | | |
| TMCLKLEIA | | reinstatement; | | |
| | | Carry out on-site sorting; | All construction sites | |
| | | Make provisions in the Contract documents to allow and promote the use of | All construction sites | |
| | | recycled aggregates where appropriate; | | |
| | | Adopt 'Selective Demolition' technique to demolish the existing structures and | | |
| | | facilities with a view to recovering broken concrete effectively for recycling purpose, | | |
| | | where possible; | | |

| EIA Ref. | EM&A Log | Environmental Mitigation Measures | Location | Implementation |
|--|----------|--|------------------------|----------------|
| | Ref | | | Status |
| | | Implement a trip-ticket system for each works contract to ensure that the disposal of C&D materials are properly documented and verified; | | |
| | | Implement an enhanced Waste Management Plan similar to ETWBTC (Works) No. 19/2005 – "Environmental Management on Construction Sites" to encourage on-site sorting of C&D materials and to minimize their generation during the course of construction; In addition, disposal of the C&D materials onto any sensitive locations such as agricultural lands, etc. should be avoided. The Contractor shall propose the final disposal sites to the Project Proponent and get its approval before implementation; and | | |
| | | The surplus surcharge should be transferred to a fill bank. | | |
| S8.3.9- S8.3.11 of HKBCFEIA and S12.6 of TMCLKLEIA | WM5 | Standard formwork or pre-fabrication should be used as far as practicable in order to minimise the arising of C&D materials. The use of more durable formwork or plastic facing for the construction works should be considered. Use of wooden hoardings should not be used, as in other projects. Metal hoarding and falsework should be used to enhance the possibility of recycling. The purchasing of construction materials will be carefully planned in order to avoid over ordering and wastage. The Contractor should recycle as much of the C&D materials as possible on-site. Public fill and C&D waste should be segregated and stored in different containers | All construction sites | V |

| EIA Ref. | EM&A Log | Environmental Mitigation Measures | Location | Implementation |
|---|----------|---|------------------------|----------------|
| | Ref | | | Status |
| | | or skips to enhance reuse or recycling of materials and their proper disposal. Where practicable, concrete and masonry can be crushed and used as fill. Steel | | |
| | | reinforcement bar can be used by scrap steel mills. Different areas of the sites should be considered for such segregation and storage. | | |
| S8.2.12- S8.3.15 of HKBCFEIA and S12.6 of TMCLKLEIA | WM6 | Chemical Waste Chemical waste that is produced, as defined by Schedule 1 of the Waste Disposal (Chemical Waste) (General) Regulation, should be handled in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. Containers used for the storage of chemical wastes should be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed; have a capacity of less than 450 liters unless the specification has been approved by the EPD; and display a label in English and Chinese in accordance with instructions prescribed in Schedule 2 of the regulation. The storage area for chemical wastes should be clearly labelled and used solely for the storage of chemical waste; enclosed on at least 3 sides; have an impermeable floor and bunding of sufficient capacity to accommodate 110% of the volume of the largest container or 20 % of the total volume of waste stored in that area, whichever is the greatest; have adequate ventilation; covered to prevent rainfall entering; and arranged so that incompatible materials are adequately separated. Disposal of chemical waste should be via a licensed waste collector; be to a facility licensed to receive chemical waste, such as the Chemical Waste Treatment Centre | All construction sites | V |

| EIA Ref. | EM&A Log | Environmental Mitigation Measures | Location | Implementation |
|--------------|----------|---|------------------------|----------------|
| | Ref | | | Status |
| | | which also offers a chemical waste collection service and can supply the necessary | | |
| | | storage containers; or be to a reuser of the waste, under approval from the EPD. | | |
| S8.3.16 of | WM7 | <u>Sewage</u> | All construction sites | V |
| HKBCFEIA | | Adequate numbers of portable toilets should be provided for the workers. The | | |
| and S12.6 of | | portable toilets should be maintained in a state, which will not deter the workers | | |
| TMCLKLEIA | | from utilizing these portable toilets. Night soil should be collected by licensed | | |
| | | collectors regularly. | | |
| S8.3.17 of | WM8 | General Refuse | All construction sites | V |
| HKBCFEIA | | The site and surroundings shall be kept tidy and litter free. General refuse | | |
| and S12.6 of | | generated on-site should be stored in enclosed bins or compaction units separately | | |
| TMCLKLEIA | | from construction and chemical wastes. | | |
| | | A reputable waste collector should be employed by the Contractor to remove | | |
| | | general refuse from the site, separately from construction and chemical wastes, on | | |
| | | a daily basis to minimize odour, pest and litter impacts. Burning of refuse on | | |
| | | construction sites is prohibited by law. | | |
| | | Aluminium cans are often recovered from the waste stream by individual collectors | | |
| | | if they are segregated and made easily accessible. Separate labelled bins for their | | |
| | | deposit should be provided if feasible. | | |
| | | Office wastes can be reduced through the recycling of paper if volumes are large | | |
| | | enough to warrant collection. Participation in a local collection scheme should be | | |

| EIA Ref. | EM&A Log | Environmental Mitigation Measures | Location | Implementation |
|----------------|---------------|---|----------------|----------------|
| | Ref | | | Status |
| Wator Quality | (Construction | considered by the Contractor. In addition, waste separation facilities for paper, aluminum cans, plastic bottles etc., should be provided. Training should be provided to workers about the concepts of site cleanliness and appropriate waste management procedure, including reduction, reuse and recycling of wastes. Sufficient dustbins shall be provided for storage of waste as required under the Public Cleansing and Prevention of Nuisances By-laws. In addition, general refuse shall be cleared daily and shall be disposed of to the nearest licensed landfill or refuse transfer station. All waste containers shall be in a secure area on hardstanding. | | |
| Trator quality | Ī | <u> </u> | During filling | V |
| | W1 | Mitigation during the marine works to reduce impacts to within acceptable levels have been recommended and will comprise a series of measures that restrict the method and sequencing of backfilling, as well as protection measures. Details of the measures are provided below: | During miling | v |

| EIA Ref. | EM&A Log | Environmental Mitigation Measures | Location | Implementation |
|----------|----------|---|----------|----------------|
| | Ref | | | Status |
| | | Reclamation filling for the Project shall not proceed until at least 200m of leading | | |
| | | seawall at the reclamation area formed above +2.2mPD, unless otherwise | | |
| | | agreement was obtained from EPD, except for the 300m gaps for marine access. | | |
| | | All underwater filling works shall be carried out behind seawalls to avoid dispersion | | |
| | | of suspended solids outside the Project limit; | | |
| | | Except for the filling of the cellular structures, not more than 15% public fill shall be | | |
| | | used for reclamation filling below +2.5mPD during construction of the seawall; | | |
| | | After the seawall is completed except for the 300m marine access as indicated in | | |
| | | the EPs, not more than 30% public fill shall be used for reclamation filling below | | |
| | | +2.5mPD, unless otherwise agreement from EPD was obtained; | | |
| | | Upon completion of 200m leading seawall, no more than a total of 60 filling barge | | |
| | | trips per day shall be made with a cumulative maximum daily filling rate of 60,000 | | |
| | | m3 for HKBCF and TMCLKL southern landfall reclamation during the filling | | |
| | | operation; and | | |
| | | Upon completion of the whole section of seawall except for the 300m marine access | | |
| | | as indicated in the EPs, no more than a total of 190 filling barge trips per day shall | | |
| | | be made with a cumulative maximum daily filling rate of 190,000 m3 for the | | |
| | | remaining filling operations for HKBCF and TMCLKL southern landfall reclamation. | | |
| | | Floating type perimeter silt curtains shall be around the HKBCF site before the | | |
| | | commencement of marine works. Staggered layers of silt curtain shall be provided | | |

| EIA Ref. | EM&A Log | Environmental Mitigation Measures | Location | Implementation |
|---|----------|---|-----------------------------------|----------------|
| | Ref | | | Status |
| | | to prevent sediment loss at navigation accesses. The length of each staggered layers shall be at least 200m; Single layer silt curtain to be applied around the North-east airport water intake; The silt-curtains should be maintained in good condition to ensure the sediment | | |
| | | plume generated from filling be confined effectively within the site boundary; The filling works shall be scheduled to spread the works evenly over a working day; Cellular structure shall be used for seawall construction; A layer of geotextile shall be placed on top of the seabed before any filling activities | | |
| | | take place inside the cellular structures to form the seawall; The conveyor belts shall be fitted with windboards and conveyor release points shall be covered with curtain to prevent any spillage of filling materials onto the surrounding waters; and An additional layer of silt curtain shall be installed near the active stone column installation points. A layer of geotextile with stone blanket on top shall be placed on | | |
| S9.11.1.3 of HKBCFEIA and S6.10 of | W2 | the seabed prior to stone column installation works. Land Works General construction activities on land should also be governed by standard good working practice. Specific measures to be written into the works contracts should include: | All land-based construction sites | V |

| EIA Ref. | EM&A Log | Environmental Mitigation Measures | Location | Implementation |
|-----------|----------|--|----------|----------------|
| | Ref | | | Status |
| TMCLKLEIA | | wastewater from temporary site facilities should be controlled to prevent direct discharge to surface or marine waters; sewage effluent and discharges from on-site kitchen facilities shall be directed to Government sewer in accordance with the requirements of the WPCO or collected for disposal offsite. The use of soakaways shall be avoided; storm drainage shall be directed to storm drains via adequately designed sand/silt removal facilities such as sand traps, silt traps and sediment basins. Channels, earth bunds or sand bag barriers should be provided on site to properly direct stormwater to such silt removal facilities. Catchpits and perimeter channels should be constructed in advance of site formation works and earthworks; silt removal facilities, channels and manholes shall be maintained and any deposited silt and grit shall be removed regularly, including specifically at the onset of and after each rainstorm; temporary access roads should be surfaced with crushed stone or gravel; rainwater pumped out from trenches or foundation excavations should be | Location | - |
| | | discharged into storm drains via silt removal facilities; measures should be taken to prevent the washout of construction materials, soil, silt or debris into any drainage system; open stockpiles of construction materials (e.g. aggregates and sand) on site | | |

| EIA Ref. | EM&A Log | Environmental Mitigation Measures | Location | Implementation |
|----------|----------|---|----------|----------------|
| | Ref | | | Status |
| | Kei | should be covered with tarpaulin or similar fabric during rainstorms; manholes (including any newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris from getting into the drainage system, and to prevent storm run-off from getting into foul sewers; discharges of surface run-off into foul sewers must always be prevented in order not to unduly overload the foul sewerage system; | | Status |
| | | all vehicles and plant should be cleaned before they leave the construction site to ensure that no earth, mud or debris is deposited by them on roads. A wheel washing bay should be provided at every site exit; wheel wash overflow shall be directed to silt removal facilities before being discharged to the storm drain; | | |
| | | the section of construction road between the wheel washing bay and the public road should be surfaced with crushed stone or coarse gravel; wastewater generated from concreting, plastering, internal decoration, cleaning work and other similar activities, shall be screened to remove large objects; vehicle and plant servicing areas, vehicle wash bays and lubrication facilities shall be located under roofed areas. The drainage in these covered areas shall be connected to foul sewers via a petrol interceptor in accordance with the requirements of the WPCO or collected for offsite disposal; | | |

| EIA Ref. | EM&A Log | Environmental Mitigation Measures | Location | Implementation |
|--------------|----------------|--|-----------------------|----------------|
| | Ref | | | Status |
| | | the contractors shall prepare an oil / chemical cleanup plan and ensure that | | |
| | | leakages or spillages are contained and cleaned up immediately; | | |
| | | waste oil should be collected and stored for recycling or disposal, in accordance with the Waste Disposal Ordinance; | | |
| | | all fuel tanks and chemical storage areas should be provided with locks and be | | |
| | | sited on sealed areas. The storage areas should be surrounded by bunds with a | | |
| | | capacity equal to 110% of the storage capacity of the largest tank; and | | |
| | | surface run-off from bunded areas should pass through oil/grease traps prior to | | |
| | | discharge to the storm water system | | |
| S9.14 of | W3 | Implement a water quality monitoring programme | At identified | V |
| HKBCFEIA | | | monitoring location | |
| and S6.10 of | | | | |
| TMCLKLEIA | | | | |
| S6.10 of | W4 | All construction works shall be subject to routine audit to ensure implementation of all | All construction site | V |
| TMCLKLEIA | | EIA recommendations and good working practice. | areas | |
| Ecology (Con | struction Phas | e) | | |
| S10.7 of | E1 | Install silt curtain during the construction | Seawall, reclamation | V |
| HKBCFEIA | | Limit works fronts | area | |
| and S8.14 of | | Construct seawall prior to reclamation filling where practicable | | |
| TMCLKLEIA | | Construct seawaii prior to reciamation filling where practicable | | |

| EIA Ref. | EM&A Log | Environmental Mitigation Measures | Location | Implementation |
|--------------|----------|---|------------------|----------------|
| | Ref | | | Status |
| | | Good site practices | | |
| | | Strict enforcement of no marine dumping | | |
| | | Site runoff control | | |
| | | Spill response plan | | |
| S10.7 of | E2 | Watering to reduce dust generation; prevention of siltation of freshwater habitats; | Land-based works | V |
| HKBCFEIA | | Site runoff should be desilted, to reduce the potential for suspended sediments, | areas | |
| | | organics and other contaminants to enter streams and standing freshwater. | | |
| S10.7 of | E3 | Good site practices, including strictly following the permitted works hours, using | Land-based works | V |
| HKBCFEIA | | quieter machines where practicable, and avoiding excessive lightings during night | areas | |
| and S8.14 of | | time. | | |
| TMCLKLEIA | | | | |
| S10.7 of | E4 | Dolphin Exclusion Zone | Marine works | V |
| HKBCFEIA | | Dolphin watching plan | | |
| and S8.14 of | | | | |
| TMCLKLEIA | | | | |
| S10.7 of | E5 | Decouple compressors and other equipment on working vessels | Marine works | V |
| HKBCFEIA | | Proposal on design and implementation of acoustic decoupling measures applied | | |
| and S8.14 of | | during reclamation works | | |
| TMCLKLEIA | | Avoidance of percussive piling | | |
| S10.7 of | E6 | Control vessel speed | Marine traffic | V |

| EIA Ref. | EM&A Log | Environmental Mitigation Measures | Location | Implementation |
|---------------|----------------|--|-----------------------|----------------|
| | Ref | | | Status |
| HKBCFEIA | | Skipper training | | |
| and S8.14 of | | Predefined and regular routes for working vessels; avoid Brothers Islands | | |
| TMCLKLEIA | | | | |
| S10.10 of | E7 | Vessel based dolphin monitoring | Northeast and | V |
| HKBCFEIA | | | Northwest | |
| and S8.14 of | | | Lantau | |
| TMCLKLEIA | | | | |
| Fisheries | | | | |
| S11.7 of | F1 | Reduce re-suspension of sediments | Seawall, reclamation | V |
| HKBCFEIA | | Limit works fronts | area | |
| | | Good site practices | | |
| | | Strict enforcement of no marine dumping | | |
| | | Spill response plan | | |
| S11.7 of | F2 | Install silt-grease trap in the drainage system collecting surface runoff | Reclamation area | V |
| HKBCFEIA | | | | |
| Landscape & | Visual (Constr | uction Phase) | | |
| S14.3.3. 3 of | LV1 | Mitigate Landscape Impacts | All construction site | N/A |
| HKBCFEIA | | | areas | |
| and S10.9 of | | G1/CM4 Grass-hydroseed or sheeting bare soil surface and stock pile areas. | | |
| TMCLKLEIA | | G9 Reserve of loose natural granite rocks for re-use. Provide new coastline to | | |
| | | adopt "natural-look" by means of using armour rocks in the form of natural | | |

| EIA Ref. | EM&A Log | Environmental Mitigation Measures | Location | Implementation |
|---------------|----------|--|-----------------------|----------------|
| | Ref | | | Status |
| | | rock materials and planting strip area accommodating screen buffer to | | |
| | | enhance "natural-look" of new coastline. | | |
| S10.9 of | LV2 | Mitigate Landscape Impacts | All construction site | V |
| TMCLKLEIA | | CM7 Ensure no run-off into water body adjacent to the Project Area. | areas | |
| S14.3.3. 3 of | LV4 | Mitigate Visual Impacts | All construction site | V |
| HKBCFEIA | | V1 Minimize time for construction activities during construction period. | areas | |
| S10.9 of | LV5 | Mitigate Visual Impacts | All construction site | V |
| TMCLKLEIA | | CM6 Control night-time lighting and glare by hooding all lights. | areas | |
| EM&A | | | | |
| S15.2.2 of | EM1 | An Independent Environmental Checker needs to be employed as per the EM&A | All construction site | V |
| HKBCFEIA | | Manual. | areas | |
| S15.5 - S15.6 | EM2 | An Environmental Team needs to be employed as per the EM&A Manual. | All construction site | V |
| of HKBCFEIA | | Prepare a systematic Environmental Management Plan to ensure effective | areas | |
| | | implementation of the mitigation measures. | | |
| | | An environmental impact monitoring needs to be implementing by the | | |
| | | Environmental Team to ensure all the requirements given in the EM&A Manual are | | |
| | | fully complied with. | | |

Legend: V = implemented;

x = not implemented;

N/A = not applicable

Appendix D - Summary of Action and Limit Levels

Table 1 - Action and Limit Levels for 1-hour TSP

| Location | Action Level | Limit Level |
|----------|--------------|-------------|
| AMS2 | 374 μg/m³ | 500 μg/m³ |
| AMS3B* | 368 μg/m³ | 500 μg/m³ |
| AMS6 | 360 μg/m³ | 500 μg/m³ |
| AMS7 | 370 μg/m³ | 500 μg/m³ |

Remarks: * Action Level set out at AMS3 Ho Yu College is adopted.

Table 2 - Action and Limit Levels for 24-hour TSP

| Location | Action Level | Limit Level |
|----------|--------------|-----------------------|
| AMS2 | 176 μg/m³ | 260 μg/m ³ |
| AMS3B* | 167 μg/m³ | 260 μg/m ³ |
| AMS6 | 173 μg/m³ | 260 μg/m³ |
| AMS7 | 183 μg/m³ | 260 μg/m ³ |

Remarks: * Action Level set out at AMS3 Ho Yu College is adopted.

Table 3 – Action and Limit Levels for Construction Noise (0700-1900 hrs of normal weekdays)

| Location | Action Level | Limit Level |
|----------|-------------------------------|----------------|
| NMS2 | When one documented | 75 dB(A) |
| | complaint, related to 0700 - | |
| | 1900 hours on normal | |
| NMS3B | weekdays, is received | *65 / 70 dB(A) |
| | from any one of the sensitive | |
| | receivers | |

^{*}Daytime noise Limit Level of 70 dB(A) applies to education institutions, while 65dB(A) applies during school examination period.

Table 4 - Action and Limit Levels for Water Quality

| Parameters | Action | Limit |
|----------------------------|--------------------------------|------------------------------------|
| DO in mg L ⁻¹ | Surface and Middle | Surface and Middle |
| (Surface, Middle & Bottom) | 5.0 | 4 .2 (except 5 mg/L for FCZ) |
| | <u>Bottom</u> | <u>Bottom</u> |
| | 4.7 | 3.6 |
| SS in mg L ⁻¹ | 23.5 and 120% of upstream | 34.4 and 130% of upstream |
| (depth-averaged) | control station's SS at the | control station's SS at the same |
| | same tide of the same day | tide of the same day and |
| | | 10mg/L for WSD Seawater |
| | | intakes |
| Turbidity in NTU | 27.5 and 120% of upstream | 47.0 and130% of upstream |
| (depth-averaged) | control station's turbidity at | control station's turbidity at the |
| | the same tide of the same | same tide of the same day |
| | day | |
| | | |

Notes:

- "depth-averaged" is calculated by taking the arithmetic means of reading of all three depths.
- 2. For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.
- 3. For turbidity, SS, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.

Table 5(a) Action and Limit Levels for Chinese White Dolphin Monitoring - Approach to Define Action Level (AL) and Limit Level (LL):

| | North Lantau | Social Cluster |
|--------------|--------------------------------|----------------------------|
| | NEL | NWL |
| Action Level | (STG < 70% of baseline) & | (STG < 70% of baseline) & |
| | (ANI < 70% of baseline) | (ANI < 70% of baseline) |
| Limit Level | [(STG < 40% of baseline) & (Af | NI < 40% of baseline)] AND |
| | [(STG < 40% of baseline) & (A | NI < 40% of baseline)] |

For North Lantau Social Cluster, action level will be trigger if either NEL **or** NWL fall below the criteria; limit level will be triggered if both NEL **and** NWL fall below the criteria.

Table 5(b) Derived Value of Action Level (AL) and Limit Level (LL) for Chinese White Dolphin Monitoring

| | North Lantau | North Lantau Social Cluster | | | | |
|--------------|--------------------------------|-----------------------------|--|--|--|--|
| | NEL | NWL | | | | |
| Action Level | (STG < 4.2) & | (STG < 6.9) & | | | | |
| | (ANI < 15.5) | (ANI < 31.3) | | | | |
| Limit Level | [(STG < 2.4) & (ANI <8.9)] ANI | D | | | | |
| | [(STG < 3.9)& (ANI < 17.9)] | | | | | |

AECOM Asia Company Limited TSP High Volume Sampler Field Calibration Report

| Station | Tung Chung Dev | velopment Pier (A | MS2) | Operator: | Leung \ | /iu Ting | |
|---------------------------------|-------------------------------|---|-----------------------|------------------------|---------------------------------------|-----------------------------------|---------|
| Cal. Date: | 15-Jul-16 | B majoris | | Next Due Date: | 15-Se | ep-16 | - |
| Equipment No.: | A-001-78T | - | | Serial No. | 33 | 83 | - |
| | | | Ambient | t Condition | | | |
| Temperatu | ire. Ta (K) | 303.2 | | Pa (mmHg) | | 755.4 | |
| Tomporato | | 000.2 | 11000010, | (g) | | 70011 | |
| | | | Orifice Transfer S | tandard Informatio | on | | |
| Seria | l No: | 988 | Slope, mc | 1.99349 | | ept, bc | -0.0273 |
| Last Calibra | ation Date: | 31-May-16 | | mc x Qstd + bc | = [DH x (Pa/760) x | (298/Ta)] ^{1/2} | |
| Next Calibra | ation Date: | 31-May-17 | | Qstd = {[DH x (| Pa/760) x (298/Ta)] | ^{1/2} -bc} / mc | |
| | | | O allhantion | £ TOD 0 | | | |
| | | | | of TSP Sampler | LI\/e | S Flow Recorder | |
| Resistance | | 1 | rfice | T | HV: | | |
| Plate No. | DH (orifice), in. of water | [DH x (Pa/760) x (298/Ta)] ^{1/2} | | Qstd (m³/min) X - axis | Flow Recorder Reading (CFM) | Continuous Flor Reading IC (CF | |
| 18 | 7.7 | | 2.74 | 1.39 | 47.0 | 46.45 | 5 |
| 13 | 6.6 | | 2.54 | 1.29 | 42.0 | 41.51 | |
| 10 | 4.9 | | 2.19 | | 34.0 | 33.6 | |
| 7 | 3.7 | | 1.90 | 0.97 | 27.0 | 26.69 |) |
| 5 | 2.6 | | 1.59 | 0.81 | 21.0 | 20.76 | ò |
| By Linear Regre Slope , mw = | ession of Y on X 44.9170 | | | Intercept, bw = | -16.2 | 2247 | _ |
| Correlation Coe | fficient* = | 0.9 | 9987 | | | | - |
| *If Correlation Co | pefficient < 0.990, | check and recalit | orate. | _ | | | |
| | | | Set Point | Calculation | | | |
| From the TSP Fig | eld Calibration Cu | rve, take Qstd = | 1.30m³/min | | | | |
| From the Regres | sion Equation, the | e "Y" value accord | ding to | | | | |
| | | | | | | | |
| | | mw | x Qstd + bw = IC | x [(Pa/760) x (298/ | Га)] ^{1/2} | | |
| | | | | 1/2 | | | |
| Therefore, Set Po | oint; IC = (mw x (| Qstd + bw) x [(76 | 60 / Pa) x (Ta / 29 | 98)]""= | | 42.66 | _ |
| | | | | | | | |
| | | | | | | | |
| Remarks: | | | | | | | |
| nomuno. | | 119990 | | | . La | | |
| | | | 700 | | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | |
| OC Davisons | 110 01 | (1) | Ciamakuna | PI | E.C. | Date: 1 - 1. | 7// |

AECOM Asia Company Limited TSP High Volume Sampler Field Calibration Report

| Station | Site Boundary of | f Site Office (WA2 | (AMS3B) | Operator: | Leung \ | /iu Ting | |
|--|--------------------|---------------------|--------------------------------|-------------------------------------|--------------------------------|------------------------------------|---------|
| Cal. Date: | 29-Jun-16 | | | Next Due Date: | 29-Aı | ıg-16 | |
| Equipment No.: | A-001-79T | _ | | Serial No. | 33 | 84 | |
| | | | Ambient | t Condition | | | |
| Temperatu | re, Ta (K) | 302.0 | Pressure, | Pa (mmHg) | | 756.3 | |
| | | • | | | | | |
| | | (| Orifice Transfer S | tandard Information | on | | |
| Seria | l No: | 988 | Slope, mc | 1.99349 | Interce | ept, bc | -0.0273 |
| Last Calibra | ation Date: | 31-May-16 | | mc x Qstd + bc | = [DH x (Pa/760) x | (298/Ta)] ^{1/2} | |
| Next Calibra | ation Date: | 31-May-17 | | Qstd = {[DH x (| Pa/760) x (298/Ta)] | ^{1/2} -bc} / mc | |
| | | | | | | | |
| | | | | of TSP Sampler | | | |
| Posistanos | | 0 | rfice | | HV | S Flow Recorder | |
| Resistance Plate No. DH (orifice), in. of water | | [DH x (Pa/76 | 60) x (298/Ta)] ^{1/2} | Qstd (m ³ /min) X - axis | Flow Recorder Reading (CFM) | Continuous Flow Reading IC (CFI | |
| 18 | 7.3 | ₹ 2.68 | | 1.36 | 49.0 | 48.56 | |
| 13 | 6.1 | | 2.45 | 1.24 | 43.0 | 42.61 | |
| 10 | 4.9 | 2.19 | | 1.11 | 35.0 | 34.68 | |
| 7 | 3.2 | | 1.77 | 0.90 | 25.0 | 24.77 | |
| 5 | 2.0 | 10. 1 | 1.40 | 0.72 | 15.0 | 14.86 | j |
| Slope , mw = | ession of Y on X | _ | 2005 | Intercept, bw = | -22.8 | 3441 | - |
| Correlation Coe | • | | 985 | _ | | | |
| If Correlation Co | efficient < 0.990, | check and recalit | orate. | | | | |
| | | | Set Point | Calculation | | | |
| From the TSP Fie | eld Calibration Cu | ırve, take Qstd = | 1.30m ³ /min | | | | |
| From the Regres | sion Equation, th | e "Y" value accord | ling to | | | | |
| | | | | | | | |
| | | mw | x Qstd + bw = IC | x [(Pa/760) x (298/ | Ta)] ^{1/2} | | |
| TI (0.15 | | 0.44.4 \ 7/70 | 0.45 \ 47.404 | 20.11/2 | | | |
| Therefore, Set Po | oint; IC = (mw x | Qstd + bw) x [(/6 | 60 / Pa) x (Ta / 29 | 98)]= | | 45.77 | - |
| | | | | | | | |
| | | | | | | | |
| Remarks: | | | * | | | | |
| | | / | | | | | |
| | | | | | | | |
| OC Reviewer | WS CHA | Λ1 | Signature: | <u> </u> | | Date: 29 / 0 / | 1,6 |

AECOM Asia Company Limited TSP High Volume Sampler Field Calibration Report

| Cal. Date: | nong nong onje | ity Marriott Hotel | (AIVIST) | Operator: _ | | Leung yiu ting | | |
|--|-------------------------------|---------------------|--|--|----------------------------------|-----------------------------------|----------|--|
| | | _ | | Next Due Date: _ | 29-Au | | | |
| Equipment No.: | A-001-80T | | | Serial No | 338 | 35 | | |
| | | | Ambient | Condition | | | | |
| Temperatur | re, Ta (K) | 302.0 | Pressure, P | Pa (mmHg) | | 756.3 | | |
| | , , , | | | | | | | |
| | | (| rifice Transfer St | andard Informatio | n | | | |
| Serial | No: | 988 | Slope, mc | 1.99349 | Interce | | -0.02737 | |
| Last Calibra | ition Date: | 31-May-16 | | | = [DH x (Pa/760) x | | | |
| Next Calibra | ation Date: | 31-May-17 | | $Qstd = \{[DH \times (Family + Family + Fami$ | Pa/760) x (298/Ta)] ¹ | ^{1/2} -bc} / mc | | |
| | • | | | | | | | |
| | | | Calibration o | f TSP Sampler | | | | |
| | | 0 | rfice | | HVS | S Flow Recorder | | |
| Resistance Plate No. | DH (orifice), in. of water | [DH x (Pa/76 | 60) x (298/Ta)] ^{1/2} | Qstd (m³/min) X - axis | Flow Recorder Reading (CFM) | Continuous Flow Reading IC (CF | | |
| 18 | 7.3 | - Pm | 2.68 | 1.36 | 50.0 | 49.55 | j | |
| 13 | 6.4 | | 2.51 | 1.27 | 44.0 | 43.60 |) | |
| 10 | 5.0 | | 2.22 | 1.13 | 37.0 | 36.66 |) | |
| 7 | 3.4 | | 1.83 | 0.93 | 24.0 | 23.78 | 3 | |
| 5 | 2.3 | | 1.50 | 0.77 | 16.0 | 15.85 | 5 | |
| | ession of Y on X 57.3614 | | 0074 | Intercept, bw = | -28. | 6477 | - | |
| Slope , mw = | | 0.9 | 9971 | _ | | | | |
| Slope , mw = Correlation Coe | fficient* = | , check and recali | | _ | | | | |
| Slope , mw = Correlation Coe | fficient* = | | brate. | : Calculation | | | | |
| Slope , mw = Correlation Coe *If Correlation Co | oefficient* = 0.990 | | brate. Set Point | : Calculation | | | | |
| Slope , mw = Correlation Coe *If Correlation Co From the TSP Fi | eld Calibration C | , check and recalil | Set Point 1.30m³/min | Calculation | | | | |
| Slope , mw = Correlation Coe *If Correlation Co From the TSP Fi | eld Calibration C | urve, take Qstd = | Set Point 1.30m³/min ding to | | 410 | | | |
| Slope , mw = Correlation Coe *If Correlation Co From the TSP Fi | eld Calibration C | urve, take Qstd = | Set Point 1.30m³/min ding to | : Calculation x [(Pa/760) x (298/ | Ta)] ^{1/2} | | | |
| Slope , mw = Correlation Coe *If Correlation Co From the TSP Fi From the Regres | eld Calibration C | urve, take Qstd = | Set Point 1.30m³/min ding to x Qstd + bw = IC | x [(Pa/760) x (298/ | Ta)] ^{1/2} | 46.34 | | |
| Slope , mw = Correlation Coe *If Correlation Co From the TSP Fi From the Regres | eld Calibration C | urve, take Qstd = | Set Point 1.30m³/min ding to | x [(Pa/760) x (298/ | Ta)] ^{1/2} | 46.34 | | |
| Slope , mw = Correlation Coe *If Correlation Co From the TSP Fi From the Regres | eld Calibration C | urve, take Qstd = | Set Point 1.30m³/min ding to x Qstd + bw = IC | x [(Pa/760) x (298/ | Ta)] ^{1/2} | 46.34 | | |
| Slope , mw = Correlation Coe *If Correlation Co From the TSP Fi From the Regres | eld Calibration C | urve, take Qstd = | Set Point 1.30m³/min ding to x Qstd + bw = IC | x [(Pa/760) x (298/ | Ta)] ^{1/2} | 46.34 | | |
| Slope , mw = Correlation Coe *If Correlation Co From the TSP Fi From the Regres Therefore, Set P | eld Calibration C | urve, take Qstd = | Set Point 1.30m³/min ding to x Qstd + bw = IC | x [(Pa/760) x (298/ | Ta)] ^{1/2} | 46.34 | | |
| Slope , mw = Correlation Coe *If Correlation Co From the TSP Fi From the Regres | eld Calibration C | urve, take Qstd = | Set Point 1.30m³/min ding to x Qstd + bw = IC | x [(Pa/760) x (298/ | Ta)] ^{1/2} | 46.34 | | |
| Slope , mw = Correlation Coe *If Correlation Co From the TSP Fi From the Regres Therefore, Set P | eld Calibration C | urve, take Qstd = | Set Point 1.30m³/min ding to x Qstd + bw = IC | x [(Pa/760) x (298/ | Ta)] ^{1/2} | 46.34 | | |



TISCH ENVIRONMENTAL, INC. 145 SOUTH MIAMI AVE VILLAGE OF CLEVES, OH 45002 513.467.9000 877.263.7610 TOLL FREE 513.467.9009 FAX

ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5025A

| Date - May 31, 2016 Rootsmeter S/N 0438320 Ta (K) - Operator Tisch Orifice I.D 0988 Pa (mm) - | | | | | | | | |
|---|----------------------------|----------------------------|------------------------------|--|----------------------------------|--------------------------------------|--|--|
| PLATE OR Run # | VOLUME START (m3) | VOLUME STOP (m3) | DIFF VOLUME (m3) | DIFF TIME (min) | METER DIFF Hg (mm) | ORFICE DIFF H2O (in.) | | |
| 1 2 3 4 5 | NA NA NA NA NA | NA NA NA NA NA | 1.00 1.00 1.00 1.00 | 1.3670 0.9750 0.8700 0.8260 0.6830 | 3.2 6.4 7.9 8.7 12.7 | 2.00 4.00 5.00 5.50 8.00 | | |

DATA TABULATION

| 0.9957 0.9915 0.9894 0.9884 0.9831 | 0.7284 1.0170 1.1373 1.1967 1.4394 | 0.8888 1.2570 1.4054 1.4740 1.7777 |
|--|--|--|
| intercept coefficie | (b) = ent (r) = | 1.24829 -0.01727 0.99988 |
| | 0.9915 0.9894 0.9884 0.9831 | 0.9915 1.0170 0.9894 1.1373 0.9884 1.1967 0.9831 1.4394 |

CALCULATIONS

Vstd = Diff. Vol[(Pa-Diff. Hg)/760](298/Ta)
Qstd = Vstd/Time

Va = Diff Vol [(Pa-Diff Hg)/Pa] Qa = Va/Time

For subsequent flow rate calculations:

Qstd = $1/m\{[SQRT(H2O(Pa/760)(298/Ta))] - b\}$ Qa = $1/m\{[SQRT H2O(Ta/Pa)] - b\}$

| Type: | | | | (| Laser Du | ıst Moni | tor | | |
|---------|---------------------------------|----------------|----------|----------------|--------------------------|-------------|----------------------------|--------------------|---------------------|
| | acturer/Brand: | | | _ | SIBATA | | 2 | | |
| Model | ment No.: | | | | LD-3 A.005.07 | ·- | | | |
| | ivity Adjustment | Scale Se | ttina: | | 557 CPI | | | | |
| Serisit | ivity Adjustinent | Scale Se | ung. | _ | 337 CFI | VI | | | |
| Opera | tor: | | | - | Mike She | k (MSKN | 1) | | |
| Standa | rd Equipment | | | | | -0.0-0.010 | | | |
| | | | | | | | | 2 | |
| Equipr | | | | | tashnick | | | 400 | |
| Venue | | | | | ing Seco | ndary So | chool) | | |
| Model | | | | 400AB | | | | | |
| Serial | No: | | ntrol: | | AB2198 | | 14 40.70 | | |
| 1+ 0 | alibuation Datate | | nsor: | **** | 00C1436 | 9803 | K₀: <u>1250</u> | 00 | |
| Last C | alibration Date*: | _ / // | 1ay 20 |)76 | - | | | | |
| *Remar | ks: Recommend | ed interva | al for I | nardwar | e calibra | tion is 1 y | /ear | | |
| | | | | | | | | | |
| Calibra | tion Result | | | | | | | | |
| | ivity Adjustment | | _ , | | | , | | PM PM | |
| | | | | | | | | | |
| Hour | Date | - | Γime | | [4] 10.00 (10.00 (10.00) | pient | Concentration ¹ | Total | Count/ |
| | (dd-mm-yy) | | | | | dition | (mg/m ³) | Count ² | Minute ³ |
| | | | | | Temp | R.H. | Y-axis | | X-axis |
| | 07.05.40 | 10.15 | | 10.15 | (°C) | (%) | 0.04500 | 1010 | |
| 1 | 07-05-16 | 12:15 | | 13:15 | 28.1 | 77 | 0.04530 | 1812 | 30.20 |
| 3 | 07-05-16 07-05-16 | 13:15 14:15 | | 14:15 15:15 | 28.2 | 76 | 0.04659 | 1863 | 31.05 |
| 4 | 07-05-16 | 15:15 | | 16:15 | 28.4 28.5 | 78 77 | 0.04560 0.04434 | 1824 1774 | 30.40 29.57 |
| Note: | | | | | | | | 1774 | 29.57 |
| Note. | 2. Total Count 3. Count/minut | was logg | ed by | Laser [| Dust Mon | itor | shnick TEOM® | | |
| By Line | or Pograssian of | VorV | | | | | | | |
| | ar Regression of (K-factor): | 1 01 1 | 0.1 | 0015 | | | | | |
| | ation coefficient: | | | 9969 | | | | | |
| | y of Calibration F | Record: | - | May 20 | 17 |) | | | |
| | , | | | , | | | | | |
| Remark | s: | | | | | | | | |
| | 3000 | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| QC Re | eviewer: YW F | ung | | Signat | ture: | 1/1/ | Da | te: 09 Ma | y 2016 |

| Model N Equipm | cturer/Brand: No.: ent No.: ity Adjustment | Scale Settii | - - ng: _ | Laser D SIBATA LD-3 A.005.00 702 CP | 8a | nitor | | |
|-------------------|---|--|------------------|---|-------------------------------|-------------------------------|-----------------------------|--|
| Operato | or: | | Mike Shek (MSKM) | | | | | |
| Standard | l Equipment | | | | | | 1 | |
| | lo.: | Cybe Serie Contr Sens 7 Ma | or: 12 y 2016 | Ying Sec 0AB2198 00C1436 | ondary 3 899803 859803 | School) K _o : _12 | 500 | |
| Calibrati | on Result | | | | | | - | |
| Sensitiv | ity Adjustment ity Adjustment | | | | | 702 702 | CPM CPM | |
| Hour | Date (dd-mm-yy) | Tin | Time | | ient lition R.H. (%) | Concentration¹ (mg/m³) Y-axis | Total Count ² | Count/ Minute ³ X-axis |
| 1 | 07-05-16 | 12:30 - | 13:30 | 28.2 | 77 | 0.04611 | 1727 | 28.78 |
| 2 | 07-05-16 | 13:30 - | 14:30 | 28.2 | 77 | 0.04678 | 1758 | 29.30 |
| 3 | 07-05-16 07-05-16 | 14:30 - 15:30 - | 15:30 16:30 | 28.4 28.5 | 78 77 | 0.04574 0.04353 | 1717 1634 | 28.62 27.23 |
| Slope (F | 1. Monitoring of 2. Total Count 3. Count/minut Regression of (-factor): ion coefficient: | was logged e was calcu | by Laser | Dust Mor | nitor | tashnick TEOM® | | |
| Validity | of Calibration F | Record: | 7 May 20 | 17 | | | | |
| Remarks | | | | | | | | |
| QC Rev | iewer: YW F | ung | _ Signa | ture: | (| 1/ | Date: _09 | May 2016 |

| Type: | footurer/Prend | | _ | Laser Di | ust Moni | tor | | |
|-------------------|--|-------------|--------------------|-----------------|-------------|----------------------------|--------------------|---------------------|
| Model | facturer/Brand: | | _ | SIBATA LD-3 | | | | |
| | ment No.: | | _ | A.005.09 | 00 | | | |
| | ivity Adjustment | Scale Sett | _ | 797 CPI | | | Ñ. | |
| Seriali | ivity Adjustinent | Scale Sell | g | 191 CFI | WI . | | (.40) | |
| Opera | tor: | | _ | Mike She | ek (MSKN | <i>(</i>) | | |
| Standa | rd Equipment | | | | 00000 | | | |
| | | | | | | | | |
| Equip | | | precht & Pa | | | | | |
| Venue | | | erport (Pui \ | ring Seco | ondary So | chool) | | |
| Model | | | es 1400AB | | | | | |
| Serial | No: | Con | _ | DAB2198 | | | | |
| 701 77 1920 | | Sens | | 00C1436 | 59803 | K₀: _12500 | | |
| Last C | Calibration Date*: | _7 Ma | ay 2016 | 40000 | | 1000 | | |
| *Remar | ks: Recommend | ed interval | for hardwar | re calibra | tion is 1 y | year | | |
| Calibra | tion Result | | | | | | | |
| | | | W MACHINE | The second con- | | | | |
| | ivity Adjustment | | | | | _797 CP | M | |
| Sensit | ivity Adjustment | Scale Sett | ing (After Ca | alibration |): | 797 CP | M | |
| | _ | | | | | | | |
| Hour | Date | Ti | me | | | Concentration ¹ | Total | Count/ |
| | (dd-mm-yy) | | | | dition | (mg/m ³) | Count ² | Minute ³ |
| | | | | Temp | R.H. | Y-axis | | X-axis |
| 1 | 07-05-16 | 11:45 | - 12:45 | (°C) 28.2 | (%) 77 | 0.04623 | 1847 | 30.78 |
| 2 | 07-05-16 | 12:45 | - 13:45 | 28.2 | 78 | 0.04708 | 1885 | 31.42 |
| 3 | 07-05-16 | 13:45 | - 13:45 - 14:45 | 28.3 | 76 | 0.04591 | 1836 | 30.60 |
| 4 | 07-05-16 | 14:45 | - 15:45 | 28.4 | 77 | 0.04333 | 1726 | 28.77 |
| Note: | | | | | | shnick TEOM® | 1120 | 20.77 |
| NOIG. | 2. Total Count | | | | | ISTITION TEOWY | | |
| | 3. Count/minut | | | | | | | |
| | | | | 0.0 | | | | |
| By Linea | ar Regression of | Y or X | | | | | | |
| Slope | (K-factor): | | 0.0015 | | | | | |
| Correl | ation coefficient: | | 0.9964 | | | | | |
| 20 20 0074, 00074 | Statement and the statement of the state | TO. (4) | | | | | | |
| Validit | y of Calibration F | Record: | 7 May 20 | 17 | | | | |
| | | | | | | | | |
| Remark | e. | | | | | | | |
| Temark | .5. | | | | | * | | |
| 10 | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | / | | |
| OC D | aviewer: VM/F | - -una | Signat | | 4/ | D-4- | . 00 May | . 2010 |

| Model Equip | facturer/Brand: No.: ment No.: rivity Adjustment | Scale Setti | = | Laser Du SIBATA LD-3 A.005.10 753 CPI | a a | tor | | |
|-----------------|---|---------------------------------------|--------------------|---|-----------------------|--|-----------------------------|---|
| Opera | tor: | | Mike Shek (MSKM) | | | | | |
| Standa | rd Equipment | | | | | | | |
| | e: No.: | Cybe Serie Cont Sens 7 Ma | or: 120 by 2016 | /ing Seco 0AB21989 00C14369 | 99803 59803 | K _o : <u>12500</u> | | |
| | tion Result | | | | | | 11000 | |
| Sensit | ivity Adjustment ivity Adjustment | | | | | 753 CF | | |
| Hour | Date (dd-mm-yy) | Ti | me | | dition R.H. (%) | Concentration ¹ (mg/m³) Y-axis | Total Count ² | Count/ Minute ³ X-axis |
| 1 | 08-05-16 | 10:00 | - 11:00 | 28.3 | 76 | 0.04945 | 1975 | 32.92 |
| 2 | 08-05-16 | 11:00 | - 12:00 | 28.3 | 77 | 0.05116 | 2049 | 34.15 |
| 3 | 08-05-16 | 12:00 | - 13:00 | 28.4 | 76 | 0.04767 | 1912 | 31.87 |
| 4 | 08-05-16 | 13:00 | - 14:00 | 28.3 | 76 | 0.04593 | 1833 | 30.55 |
| Slope Correl | 1. Monitoring of 2. Total Count 3. Count/minut ar Regression of (K-factor): ation coefficient: y of Calibration F | was logged te was calc Y or X | d by Laser [| Oust Mon otal Cou | itor | shnick TEOM® | | |
| Remark | es: | | | | | | | |
| OC P | aviewer VM/F | -una | Signat | turo: | 4/ | Date | a. 00 Ma | v 2016 |

| Type: Manut Model | facturer/Brand: | | - | Laser Do | ıst Moni | tor | | |
|--------------------------|---|---------------------------|--|------------------|-----------------------|---|-----------------------------|---|
| | ment No.: | | | LD-3 A.005.11 | 2 | | | |
| | tivity Adjustment | Scale Setti | | 799 CPI | | | | |
| Opera | | | _ | Mike She | | Л) | | |
| Standa | rd Equipment | | | | | | | |
| Equipo Venue Model | ment: | Cybe | erecht & Pa erport (Pui \ s 1400AB | | | chool) | | |
| Serial | No: | Conti | | DAB2198 | 99803 | | | |
| | | Sens | | 00C1436 | | Ko: 12500 |) | |
| Last C | Calibration Date*: | 7 Ma | y 2016 | | | | | |
| *Remar | ks: Recommend | ed interval | for hardwai | re calibra | tion is 1 y | /ear | | |
| Calibra | tion Result | | | | | | | |
| Sensit | civity Adjustment civity Adjustment | Scale Setti | ng (After Ca | alibration |): ´ | | PM PM | |
| Hour | Date (dd-mm-yy) | Tir | ne | N 200000 | dition R.H. (%) | Concentration ¹ (mg/m ³) Y-axis | Total Count ² | Count/ Minute ³ X-axis |
| 1 | 08-05-16 | | - 10:30 | 28.3 | 77 | 0.04959 | 1893 | 33.05 |
| 2 | 08-05-16 | 10:30 | - 11:30 | 28.4 | 77 | 0.05173 | 2071 | 34.52 |
| 3 4 | 08-05-16 | 11:30 · 12:30 · | 12:30 | 28.3 | 76 | 0.04817 | 1922 | 32.03 |
| Note: | 08-05-16 | | - 13:30 | 28.3 | 77 | 0.04562 | 1828 | 30.47 |
| By Linea | 2. Total Count 3. Count/minut ar Regression of (K-factor): ation coefficient: | was logged e was calcu | by Laser [| Dust Mon | itor | shnick TEOM® | | |
| Validit | y of Calibration F | Record: | 8 May 20 | 17 | | | | |
| Remark | s: | | | | | | | |
| QC Re | eviewer: YW F | - ung | _ Signat | ture: | y | Date | e: _09 Ma <u>y</u> | y 2016 |

| Type: | facturer/Brand: | | _ | Laser Du SIBATA | ust Moni | tor | | |
|---------|--|----------------------------|--------------|--------------------|-------------|----------------------------|--------------------|---------------------|
| Model | | | | LD-3B | | | | |
| Equip | ment No.: | | | A.005.13 | la | | | |
| | tivity Adjustment | Scale Settin | | 643 CPI | | | | |
| Opera | ator: | | _ | Mike She | ek (MSKN | 1) | | |
| Standa | rd Equipment | | | | | | | |
| | | | | | | 30. | | |
| Equip | | Rupp | recht & Pa | tashnick | TEOM® | | | |
| Venue | | | rport (Pui Y | ∕ing Secc | ondary So | chool) | | |
| Model | No.: | Serie | s 1400AB | | | | | |
| Serial | No: | Contr | ol: 140 | DAB21989 | 99803 | | | |
| | | Sens | or: 120 | 00C14365 | 59803 | Ko: 1250 | 0 | |
| Last C | Calibration Date*: | _7 Ma; | y 2016 | | | | | |
| *Remar | ks: Recommend | ed interval | for hardwar | re calibra | tion is 1 y | /ear | | |
| Calibra | tion Result | | | | | | | |
| Sensit | tivity Adjustment tivity Adjustment | | | | | | PM PM | |
| Hour | Date | Tir | ne | Amb | pient | Concentration ¹ | Total | Count/ |
| 1 | (dd-mm-yy) | | | 22000000000 | dition | (mg/m³) | Count ² | Minute ³ |
| | ())) | | | Temp | R.H. | Y-axis | Count | X-axis |
| | | | | (°C) | (%) | I unio | | A dalo |
| 1 | 08-05-16 | 09:45 - | - 10:45 | 28.3 | 76 | 0.04923 | 1977 | 32.95 |
| 2 | 08-05-16 | 10:45 - | - 11:45 | 28.3 | 77 | 0.05086 | 2034 | 33.90 |
| 3 | 08-05-16 | 11:45 - | 12:45 | 28.4 | 77 | 0.04834 | 1936 | 32.27 |
| 4 | 08-05-16 | 12:45 - | - 13:45 | 28.4 | 76 | 0.04617 | 1850 | 30.83 |
| Note: | Monitoring of 2. Total Count 3. Count/minut ar Regression of | was logged te was calcu | by Laser [| Dust Mon | itor | shnick TEOM® | | |
| | (K-factor): | 1 01 7 | 0.0015 | | | | | |
| | ation coefficient: | | 0.9981 | | | | | |
| | y of Calibration F | | 8 May 20 | 17 | | | | |
| Remark | ks: | | | | | | | |
| | | | | | | 7 | | |
| QC Re | eviewer: YW F | ung | Signat | ture: | 4 | Dat | e: _09 Ma | y 2016 |

| Model Equipr | acturer/Brand: No.: ment No.: ivity Adjustment | Scale Se | tting: | | Laser Du SIBATA LD-3B A.005.14 786 CPN | а | tor | | |
|-----------------|---|----------------------------------|--|---|--|----------------------------|--|-----------------------------|---|
| Opera | tor: | | | | Mike She | k (MSKN | 1) | | |
| Standa | rd Equipment | | | | | | | | |
| | : No.: | Cyll Ser Cor Ser 7 M | berpo ries 1- ntrol: nsor: flay 20 | rt (Pui Y 400AB 140 120 016 | tashnick i fing Seco DAB21989 DOC14365 | ndary Sc 99803 99803 | K _o : <u>12500</u> |) | |
| | tion Result | | | | | | | | |
| Sensit | ivity Adjustment ivity Adjustment | | | | | , | | PM PM | |
| Hour | Date (dd-mm-yy) | 7 | Γime | | Amb Cond Temp (°C) | | Concentration ¹ (mg/m³) Y-axis | Total Count ² | Count/ Minute ³ X-axis |
| 1 | 08-05-16 | 13:45 | - | 14:45 | 28.4 | 77 | 0.04652 | 1994 | 33.23 |
| 2 | 08-05-16 | 14:45 | - | 15:45 | 28.5 | 77 | 0.04837 | 2071 | 34.52 |
| 3 | 08-05-16 | 15:45 | - | 16:45 | 28.4 | 77 | 0.05162 | 2205 | 36.75 |
| 4 | 08-05-16 | 16:45 | - | 17:45 | 28.4 | 77 | 0.04983 | 2135 | 35.59 |
| Slope Correl | 2. Total Count 3. Count/minut ar Regression of (K-factor): ation coefficient: | was logg te was cal Y or X | ed by culated | Laser E ed by (T 0014 9987 | Oust Moni otal Cour | tor | shnick TEOM® | | |
| | y of Calibration F | Record: | _8 | May 201 | 17 | | | | |
| Remark | s: | | | | | 10 / | £ | | |
| QC Re | eviewer: YW F | ung | | Signat | ure: | - | Dat | e: <u>09 Ma</u> | y 2016 |

| Type: Manu Model | facturer/Brand: | | | Laser D SIBATA LD-3B | ust Mon | itor | | |
|------------------------|--|------------------------|--------------------|----------------------------|-----------|----------------------------|--------------------|---------------------|
| | ment No.: | CI- C- | w | A.005.10 | | | | |
| Sensi | tivity Adjustment | Scale Se | tting: | 521 CP | M | | | |
| Opera | ntor: | | | Mike She | ek (MSKI | M) | | |
| Standa | rd Equipment | | | | | | | |
| Equip | | | | Patashnick | | | | |
| Venue Model | | | ries 1400A | i Ying Seco | ondary S | cnooi) | | |
| Serial | | - | | 40AB2198 | 99803 | | | |
| | | | | 200C1436 | | K _o : 12500 |) | |
| Last C | Calibration Date*: | | lay 2016 | | | | A SAME | |
| *Remar | ks: Recommend | ed interva | al for hardw | /are calibra | tion is 1 | year | | |
| Calibra | tion Result | | | | | | | |
| | ivity Adjustment ivity Adjustment | | | | | | PM PM | |
| Hour | Date | Т | Time | Aml | pient | Concentration ¹ | Total | Count/ |
| | (dd-mm-yy) | | | Cond | dition | (mg/m³) | Count ² | Minute ³ |
| | | | | Temp | R.H. | Y-axis | | X-axis |
| 1 | 16-07-16 | 10:15 | - 11:15 | (°C) | (%) | 0.05340 | 2425 | 25.50 |
| 2 | 16-07-16 | 11:15 | - 11:15 - 12:15 | | 76 76 | 0.05319 0.05615 | 2135 2247 | 35.58 37.45 |
| 3 | 16-07-16 | 13:00 | - 14:00 | | 77 | 0.05984 | 2392 | 39.87 |
| 4 | 16-07-16 | 14:00 | - 15:00 | | 77 | 0.05786 | 2313 | 38.55 |
| Note: | Total Count Count/minut | was logge e was cal | ed by Lase | r Dust Mon | itor | ashnick TEOM® | | |
| | ar Regression of | Y or X | | | | | | |
| | (K-factor): ation coefficient: | | 0.0015 | | | | | |
| Correia | ation coefficient. | | 0.9987 | | | | | |
| Validity | of Calibration R | Record: | 16 July | 2017 | | | | |
| Remarks | s: | The second second | | | | | | |
| | | | | | | | | |
| QC Re | viewer: YW F | ung | Sign | ature: | 7/ | Date | e: _18 July | / 2016 |



綜合試驗有限公司 SOILS & MATERIALS ENGINEERING CO., LTD.

G/F., 9/F., 12/F., 13/F. & 20/F., Leader Centre, 37 Wong Chuk Hang Road, Aberdeen, Hong Kong. 香港黃竹坑道37號利達中心地下,9樓,12樓,13樓及20樓 E-mail: smec@cigismec.com Website: www.cigismec.com

Tel: (852) 2873 6860 Fax: (852) 2555 7533



CERTIFICATE OF CALIBRATION

Certificate No.:

16CA0223 01

Page:

of

2

Item tested

Description:

Acoustical Calibrator (Class 1)

Manufacturer: Type/Model No.: B & K 4231

Serial/Equipment No.: Adaptors used: 3006428

N.004.03

Item submitted by

Curstomer:

AECOM ASIA CO LIMITED

Address of Customer: Request No.:

-

Date of receipt:

23-Feb-2016

Date of test:

25-Feb-2016

Reference equipment used in the calibration

| Description: Lab standard microphone Preamplifier Measuring amplifier Signal generator Digital multi-meter Audio analyzer | Model: B&K 4180 B&K 2673 B&K 2610 DS 360 34401A 8903B | Serial No. 2341427 2743150 2346941 61227 US36087050 GB41300350 | Expiry Date: 15-Apr-2016 22-Apr-2016 22-Apr-2016 16-Apr-2016 17-Apr-2016 | Traceable to: SCL CEPREI CEPREI CEPREI CEPREI CEPREI |
|---|---|--|---|--|
| Universal counter | 53132A | MY40003662 | 16-Apr-2016 | CEPREI |
| | | | | |

Ambient conditions

Temperature:

21 ± 1 °C

Relative humidity:

55 ± 10 %

Air pressure:

1010 ± 5 hPa

Test specifications

- The Sound Calibrator has been calibrated in accordance with the requirements as specified in IEC 60942 1997 Annex B
 and the lab calibration procedure SMTP004-CA-156.
- 2, The calibrator was tested with its axis vertical facing downwards at the specific frequency using insert voltage technique.
- 3, The results are rounded to the nearest 0.01 dB and 0.1 Hz and have not been corrected for variations from a reference pressure of 1013.25 hectoPascals as the maker's information indicates that the instrument is insensitive to pressure changes.

Test results

This is to certify that the sound calibrator conforms to the requirements of annex B of IEC 60942: 1997 for the conditions under which the test was performed. This does not imply that the sound calibrator meets IEC 60942 under any other conditions.

Details of the performed measurements are presented on page 2 of this certificate.

hin/Feng Jun Qi

Huang-Jian

Approved Signatory:

Date:

27-Feb-2016

Company Chop:

Comments: The results reported in this certificate refer to the condition of the instrument on the date of calibration and carry no implication regarding the long-term stability of the instrument.

© Soils & Materials Engineering Co., Ltd

Form No.CARP156-1/Issue 1/Rev.D/01/03/2007



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G/F., 9/F., 12/F., 13/F. & 20/F., Leader Centre, 37 Wong Chuk Hang Road, Aberdeen, Hong Kong. 香港黄竹坑道37號利達中心地下,9樓,12樓,13樓及20樓 E-mail: smec@cigismec.com Website: www.cigismec.com Tel: (852) 2873 6860 Fax: (852) 2555 7533



CERTIFICATE OF CALIBRATION

Certificate No.:

15CA1203 03

Page:

of

Item tested

Description:

Acoustical Calibrator (Class 1)

Manufacturer: Type/Model No.: Rion Co., Ltd. NC-73 10307223

Serial/Equipment No.: Adaptors used:

100

(N 4 18)

Item submitted by

Curstomer:

AECOM ASIA CO., LTD.

Address of Customer:

-

Request No.:

-

Date of receipt:

03-Dec-2015

Date of test:

03-Dec-2015

Reference equipment used in the calibration

| Description: | Model: | Serial No. | Expiry Date: | Traceable to: |
|-------------------------|----------|------------|--------------|---------------|
| Lab standard microphone | B&K 4180 | 2341427 | 15-Apr-2016 | SCL |
| Preamplifier | B&K 2673 | 2239857 | 22-Apr-2016 | CEPREI |
| Measuring amplifier | B&K 2610 | 2346941 | 22-Apr-2016 | CEPREI |
| Signal generator | DS 360 | 61227 | 16-Apr-2016 | CEPREI |
| Digital multi-meter | 34401A | US36087050 | 17-Apr-2016 | CEPREI |
| Audio analyzer | 8903B | GB41300350 | 17-Apr-2016 | CEPREI |
| Universal counter | 53132A | MY40003662 | 16-Apr-2016 | CEPREI |

Ambient conditions

Temperature:

22 ± 1 °C

Relative humidity:

50 ± 10 %

Air pressure:

1010 ± 5 hPa

Test specifications

- The Sound Calibrator has been calibrated in accordance with the requirements as specified in IEC 60942 1997 Annex B and the lab calibration procedure SMTP004-CA-156.
- 2, The calibrator was tested with its axis vertical facing downwards at the specific frequency using insert voltage technique.
- 3, The results are rounded to the nearest 0.01 dB and 0.1 Hz and have not been corrected for variations from a reference pressure of 1013.25 hectoPascals as the maker's information indicates that the instrument is insensitive to pressure changes.

Test results

This is to certify that the sound calibrator conforms to the requirements of annex B of IEC 60942: 1997 for the conditions under which the test was performed. This does not imply that the sound calibrator meets IEC 60942 under any other conditions.

Details of the performed measurements are presented on page 2 of this certificate.

Huang Jian Min/Feng Jun Qi

Approved Signatory:

Date:

04-Dec-2015

Company Chop:

Comments: The results reported in this certificate refer to the condition of the instrument on the date of calibration and carry no implication regarding the long-term stability of the instrument.

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Form No.CARP156-1/Issue 1/Rev.D/01/03/2007



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Tel: (852) 2873 6860 Fax: (852) 2555 7533



CERTIFICATE OF CALIBRATION

Certificate No.:

16CA0704 03-01

Page

of

2

Item tested

Description:

Sound Level Meter (Type 1)

Microphone

Manufacturer: Type/Model No.:

2238

B&K

Serial/Equipment No.:

2800927 / N.009.06

4188 2791211

Adaptors used:

Item submitted by

Customer Name:

AECOM ASIA CO., LTD.

Address of Customer:

Request No.: Date of receipt:

04-Jul-2016

Date of test:

07-Jul-2016

Reference equipment used in the calibration

Description:

Multi function sound calibrator

Model: B&K 4226

Serial No. 2288444

Expiry Date: 18-Jun-2017

Traceable to: CIGISMEC

Signal generator Signal generator

DS 360 DS 360 33873 61227

18-Apr-2017 18-Apr-2017 CEPREI CEPREI

Ambient conditions

Temperature:

22 ± 1 °C 60 ± 10 %

Relative humidity: Air pressure:

1000 ± 5 hPa

Test specifications

1, The Sound Level Meter has been calibrated in accordance with the requirements as specified in BS 7580: Part 1: 1997 and the lab calibration procedure SMTP004-CA-152.

2. The electrical tests were performed using an electrical signal substituted for the microphone which was removed and replaced by an equivalent capacitance within a tolerance of ±20%.

3, The acoustic calibration was performed using an B&K 4226 sound calibrator and corrections was applied for the difference between the free-field and pressure responsess of the Sound Level Meter.

Test results

This is to certify that the Sound Level Meter conforms to BS 7580: Part 1: 1997 for the conditions under which the test was performed.

Details of the performed measurements are presented on page 2 of this certificate.

Min/Feng Jun Qi

Actual Measurement data are documented on worksheets.

Huang Jian

Approved Signatory:

Date:

09-Jul-2016

Company Chop:

Comments: The results reported in this certificate refer to the condition of the instrument on the date of calibration and carry no implication regarding the long-term stability of the instrument.

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Form No.CARP152-1/Issue 1/Rev.C/01/02/2007

Work Order:

HK1630169

Sub-batch:

Client:

AECOM ASIA COMPANY LIMITED

Date of Issue:

27/07/2016

Description:

Multifunctional Meter

Brand Name:

YSI

Model No.:

6820 V2

Serial No.:

12A101545

Equipment No.:

W.026.35

Date of Calibration: 26 July, 2016

Date of next Calibration:

26 October, 2016

Parameters:

Conductivity

Method Ref: APHA (21th edition), 2510B

| Expected Reading (uS/cm) | Displayed Reading (uS/cm) | Tolerance (%) |
|--------------------------|----------------------------|---------------|
| | | |
| 146.9 | 144.7 | -1.5 |
| 6667 | 6630 | -0.6 |
| 12890 | 12820 | -0.5 |
| 58670 | 58660 | -0.0 |
| | | |
| | Tolerance Limit (%) | ±10.0 |

Dissolved Oxygen Method Ref: APHA (21st edition), 45000: G

| 3.41 | 3.40 | -0.01 |
|------|------|-------|
| 5.52 | 5.56 | +0.04 |
| 7.78 | 7.81 | +0.03 |

Temperature

Method Ref: Section 6 of International Accreditation New Zealand Technical

Guide No. 3 Second edition March 2008: Working Thermometer Calibration Procedure.

| Reading of Ref. thermometer (°C) | Displayed Reading (°C) | Tolerance (°C) |
|----------------------------------|------------------------|----------------|
| | | |
| 11.0 | 10.96 | -0.0 |
| 22.0 | 22.04 | +0.0 |
| 37.5 | 37.42 | -0.1 |
| | | |
| | Tolerance Limit (°C) | ±2.0 |

Remark: "Displayed Reading" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.

> Mr Fung Lim Chee, Richard General Manager -

Work Order:

HK1630169

Sub-Batch:

0

Client:

AECOM ASIA COMPANY LIMITED

Date of Issue:

27/07/2016

Description:

Multifunctional Meter

Brand Name:

YSI

Model No.:

6820 V2

Serial No.:

12A101545

Equipment No.:

W.026.35

Date of Calibration: 26 July, 2016

Date of next Calibration:

26 October, 2016

Parameters:

Salinity

Method Ref: APHA (21st edition), 2520B

| Expected Reading (g/L) | Displayed Reading (g/L) | Tolerance (%) |
|------------------------|-------------------------|---------------|
| | | |
| 0 | 0.00 | |
| 10 | 10.3 | +3.0 |
| 20 | 19.97 | -0.2 |
| 30 | 29.87 | -0.4 |
| | | |
| | Tolerance Limit (%) | ±10.0 |

Turbidity

Method Ref: APHA (21st edition), 2130B

| Expected Reading (NTU) | Displayed Reading (NTU) | Tolerance (%) |
|------------------------|-------------------------|---------------|
| | | |
| 0 | 0.0 | |
| 4 | 4.1 | +2.5 |
| 10 | 10.3 | +3.0 |
| 20 | 19.7 | -1.5 |
| 50 | 49.6 | -0.8 |
| 100 | 100.5 | +0.5 |
| | | |
| | Tolerance Limit (%) | ±10.0 |

pH Value

Method Ref: APHA (21st edition), 4500H:B

| 4.0 | | |
|------|-------|-------|
| 4.0 | | 1 |
| 4.0 | 3.99 | -0.01 |
| 7.0 | 7.03 | +0.03 |
| 10.0 | 10.04 | +0.04 |

Remark: "Displayed Reading" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.

Mr Fung Lim Chee Richard

General Manager



Work Order:

HK1630168

Sub-batch:

0

Client:

AECOM ASIA COMPANY LIMITED

Date of Issue:

28/07/216

Description:

Sonde Environmental Monitoring System

Brand Name:

YSI

Model No .:

6820 V2

Serial No.:

12D100972

Equipment No.:

W.026.36

Date of Calibration: 26 July, 2016

Date of next Calibration:

26 October, 2016

Parameters:

Conductivity

Method Ref: APHA (21th edition), 2510B

| Expected Reading (uS/cm) | Displayed Reading (uS/cm) | Tolerance (%) |
|--------------------------|---------------------------|---------------|
| | | |
| 146.9 | 147.0 | +0.1 |
| 6667 | 6680 | +0.2 |
| 12890 | 12830 | -0.5 |
| 58670 | 58700 | +0.1 |
| | | |
| | Tolerance Limit (%) | ±10.0 |

Dissolved Oxygen Method Ref: APHA (21st edition), 45000: G

| Expected Reading (mg/L) | Displayed Reading (mg/L) | Tolerance (mg/L) | | |
|-------------------------|--------------------------|------------------|--|--|
| | | | | |
| 3.41 | 3.42 | +0.01 | | |
| 5.52 | 5.55 | +0.03 | | |
| 7.78 | 7.76 | -0.02 | | |
| 7.76 | 7.70 | -0.02 | | |
| | Tolerance Limit (mg/L) | +0.20 | | |

Temperature

Method Ref: Section 6 of International Accreditation New Zealand Technical

Guide No. 3 Second edition March 2008: Working Thermometer Calibration Procedure,

| Reading of Ref. thermometer (°C) | Displayed Reading (°C) | Tolerance (°C) | | |
|----------------------------------|------------------------|----------------|--|--|
| | | 412 | | |
| 11.0 | 11.01 | +0.0 | | |
| 22.0 | 22.09 | +0.1 | | |
| 37.5 | 37.44 | -0.1 | | |
| 2.12 | | | | |
| | Tolerance Limit (°C) | ±2.0 | | |

Remark: "Displayed Reading" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.

Mr Fung Lim Chee, Richard

General Manager -

Work Order:

HK1630168

Sub-Batch:

0

Client:

AECOM ASIA COMPANY LIMITED

Date of Issue:

28/07/216

Description:

Sonde Environmental Monitoring System

Brand Name:

YSI

Model No.:

6820 V2

Serial No.:

12D100972

Equipment No.:

W.026.36

Date of Calibration: 26 July, 2016

Date of next Calibration:

26 October, 2016

Parameters:

Salinity

Method Ref: APHA (21st edition), 2520B

| Expected Reading (g/L) | Displayed Reading (g/L) | Tolerance (%) |
|------------------------|-------------------------|---------------|
| | | |
| 0 | 0.00 | |
| 10 | 10.02 | +0.2 |
| 20 | 19.98 | -0.1 |
| 30 | 29.94 | -0.2 |
| | Tolerance Limit (%) | ±10.0 |

Turbidity

Method Ref: APHA (21st edition), 2130B

| Expected Reading (NTU) | Displayed Reading (NTU) | Tolerance (%) | | |
|------------------------|-------------------------|---------------|--|--|
| | | | | |
| 0 | 0.0 | | | |
| 4 | 4.2 | +5.0 | | |
| 10 | 10.2 | +2.0 | | |
| 20 | 20.3 | +1.5 | | |
| 50 | 49.5 | -1.0 | | |
| 100 | 100.4 | +0.4 | | |
| | | | | |
| | Tolerance Limit (%) | +10.0 | | |

pH Value

Method Ref: APHA (21st edition), 4500H:B

| Expected Reading (pH Unit) | Displayed Reading (pH Unit) | Tolerance (pH unit) | | |
|----------------------------|-----------------------------|---------------------|--|--|
| | | | | |
| 4.0 | 4.01 | +0.01 | | |
| 7.0 | 7.02 | +0.02 | | |
| 10.0 | 10.02 | +0.02 | | |
| | | | | |
| | Tolerance Limit (pH Unit) | ±0.20 | | |

Remark: "Displayed Reading" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.

Mr Fung Lim Chee, Richard

General Manager -



Hong Kong Boundary Crossing Facilities – Reclamation Works Impact Monitoring Schedule for August 2016

| Sunday | Monday | | Tuesday | Wed | nesday | Thursday | Frie | day | Saturday |
|--------|---------|----------------------|---------|----------------------|-----------------------------|----------|----------------------|--|---------------------------|
| | 0 | 1-Aug | 02-Aug | | 03-Aug | 04-Aug | | 05-Aug | 06-Aug |
| | | 11:57 19:02 | | Mid-Flood Mid-Ebb | 06:31 13:24 | | Mid-Flood Mid-Ebb | 07:56 14:42 | |
| | | | | 1-ho | our TSP^ our TSP oise | | 24-hour TS | SP^ (AMS2) | |
| 07-Aug | 0 | 8-Aug | 09-Aug | | 10-Aug | 11-Aug | | 12-Aug | 13-Aug |
| | | 09:58 16:20 ng | | Mid-Flood Mid-Ebb | 11:46 17:41 | | Mid-Ebb Mid-Flood | 08:12 15:30 | |
| 14-Aug | 1: | 5-Aug | 16-Aug | | 17-Aug | 18-Aug | | 19-Aug | 20-Aug |
| | | 10:58 18:14 | | Mid-Ebb Mid-Flood | 12:20 19:21 | | Mid-Flood Mid-Ebb | 06:59 13:37 | 24-hour TSP 1-hour TSP |
| 21-Aug | 2 | 2-Aug | 23-Aug | | 24-Aug | 25-Aug | | 26-Aug | 27-Aug |
| | | 09:22 15:37 | | Mid-Flood Mid-Ebb | 11:28 17:17 | | 1-hou | 07:30 14:30 ur TSP ir TSP oise | |
| 28-Aug | 2 | 9-Aug | 30-Aug | | 31-Aug | | | | |
| · | Mid-Ebb | 10:57 18:05 | · | Mid-Ebb Mid-Flood | 12:26 19:14 | | | | |

^{^24-}hour TSP monitoring at Station AMS2 - Tung Chung Development Pier was rescheduled from 4 Aug 2016 to 5 Aug 2016 due to electricity failure.

The schedule is subject to change due to unforeseeable circumstances (e.g. adverse weather, etc)

Appendix F Schedule June 2016

^{*}Due to tropical cyclone warning signal no.3 or above was hoisted during the water quality monitoring scheduled on 1 August 2016 was cancelled except the monitoring locations named CSA, CS6, SR10B(N) and SR10A during Mid-Ebb Tide.

Hong Kong Boundary Crossing Facilities – Reclamation Works Tentative Impact Monitoring Schedule for September 2016

| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|--------|--|---------|---|------------------------------------|--|---------------------------|
| | | · · | • | 01-Sep | 02-Sep | 03-Sep |
| | | | | 24-hour TSP 1-hour TSP Noise | Mid-Flood 07:08 Mid-Ebb 13:42 | |
| 04-Sep | 05-Se | 06-Sep | 07-Sep | 08-Sep | 09-Sep | 10-Sep |
| | Mid-Flood 09:0 Mid-Ebb 15:1: Dolphin monitoring | | Mid-Flood 10:26 Mid-Ebb 16:22 24-hour TSP 1-hour TSP Noise | | Mid-Flood 12:50 Mid-Ebb 18:10 | |
| 11-Sep | 12-Se | 13-Sep | 14-Sep | 15-Sep | 16-Sep | 17-Sep |
| | Mid-Ebb 09:2: Mid-Flood 17:0 | | Mid-Ebb 11:08 Mid-Flood 18:11 | | Mid-Ebb 12:32 Mid-Flood 19:08 | |
| 18-Sep | 19-Se | 20-Sep | 21-Sep | 22-Sep | 23-Sep | 24-Sep |
| | Mid-Flood 08:24 Mid-Ebb 14:33 24-hour TSP 1-hour TSP Noise | | Mid-Flood 10:24 Mid-Ebb 16:10 | | Mid-Flood 12:55 Mid-Ebb 18:15 Dolphin monitoring | 24-hour TSP 1-hour TSP |
| 25-Sep | 26-Se | 27-Sep | 28-Sep | 29-Sep | 30-Sep | |
| | Mid-Ebb 09:4: Mid-Flood 17:0 | | Mid-Ebb 11:25 Mid-Flood 18:09 | | Mid-Flood 06:22 Mid-Ebb 12:42 24-hour TSP 1-hour TSP Noise | |

The schedule is subject to change due to unforeseeable circumstances (e.g. adverse weather, etc)

Appendix F Schedule June 2016

Appendix G Impact Air Quality Monitoring Results

1-hour TSP Monitoring Results at Station AMS2 - Tung Chung Development Pier

| Date | Session | Weather Condition | averaged Wind Speed (m/s)* | Time (hh:mm) | Conc. (µg/m³) | Action Level (µg/m³) | Limit Level (µg/m³) |
|-----------|----------|----------------------|-------------------------------|-----------------|------------------|----------------------|------------------------|
| 3-Aug-16 | 1st Hour | Cloudy | 0.76 | 10:10 | 69 | 374 | 500 |
| 3-Aug-16 | 2nd Hour | Cloudy | 0.04 | 11:10 | 68 | 374 | 500 |
| 3-Aug-16 | 3rd Hour | Cloudy | 0.04 | 12:10 | 67 | 374 | 500 |
| 9-Aug-16 | 1st Hour | Sunny | 0.11 | 10:45 | 72 | 374 | 500 |
| 9-Aug-16 | 2nd Hour | Sunny | 1.09 | 11:45 | 72 | 374 | 500 |
| 9-Aug-16 | 3rd Hour | Sunny | 0.01 | 12:45 | 73 | 374 | 500 |
| 15-Aug-16 | 1st Hour | Cloudy | 0.03 | 11:33 | 74 | 374 | 500 |
| 15-Aug-16 | 2nd Hour | Cloudy | 0.03 | 12:33 | 75 | 374 | 500 |
| 15-Aug-16 | 3rd Hour | Cloudy | 0.03 | 13:33 | 75 | 374 | 500 |
| 20-Aug-16 | 1st Hour | Sunny | 0.01 | 10:00 | 65 | 374 | 500 |
| 20-Aug-16 | 2nd Hour | Sunny | 0.00 | 11:00 | 65 | 374 | 500 |
| 20-Aug-16 | 3rd Hour | Sunny | 0.01 | 12:00 | 67 | 374 | 500 |
| 26-Aug-16 | 1st Hour | Sunny | 0.66 | 10:00 | 74 | 374 | 500 |
| 26-Aug-16 | 2nd Hour | Sunny | 0.04 | 11:00 | 74 | 374 | 500 |
| 26-Aug-16 | 3rd Hour | Sunny | 0.41 | 12:00 | 74 | 374 | 500 |
| | | • | _ | Average | 71 | | • |
| | | | | Min | 65 | | |
| | | | | Max | 75 |] | |

1-hour TSP Monitoring Results at Station AMS3B - Site Boundary of Site Office (WA2)

| Date | Session | Weather Condition | averaged Wind Speed (m/s)* | Time (hh:mm) | Conc. (µg/m³) | Action Level (µg/m³) ^ | Limit Level (µg/m³) |
|-----------|----------|----------------------|-------------------------------|-----------------|------------------|---------------------------|------------------------|
| 3-Aug-16 | 1st Hour | Cloudy | 0.76 | 10:20 | 68 | 368 | 500 |
| 3-Aug-16 | 2nd Hour | Cloudy | 0.04 | 11:20 | 68 | 368 | 500 |
| 3-Aug-16 | 3rd Hour | Cloudy | 0.04 | 12:20 | 67 | 368 | 500 |
| 9-Aug-16 | 1st Hour | Sunny | 0.01 | 13:40 | 68 | 368 | 500 |
| 9-Aug-16 | 2nd Hour | Sunny | 1.05 | 14:40 | 69 | 368 | 500 |
| 9-Aug-16 | 3rd Hour | Sunny | 0.01 | 15:40 | 69 | 368 | 500 |
| 15-Aug-16 | 1st Hour | Cloudy | 0.03 | 11:17 | 74 | 368 | 500 |
| 15-Aug-16 | 2nd Hour | Cloudy | 0.03 | 12:17 | 75 | 368 | 500 |
| 15-Aug-16 | 3rd Hour | Cloudy | 0.03 | 13:17 | 74 | 368 | 500 |
| 20-Aug-16 | 1st Hour | Sunny | 0.00 | 10:10 | 67 | 368 | 500 |
| 20-Aug-16 | 2nd Hour | Sunny | 0.01 | 11:10 | 67 | 368 | 500 |
| 20-Aug-16 | 3rd Hour | Sunny | 0.04 | 12:10 | 68 | 368 | 500 |
| 26-Aug-16 | 1st Hour | Sunny | 0.04 | 10:10 | 73 | 368 | 500 |
| 26-Aug-16 | 2nd Hour | Sunny | 0.41 | 11:10 | 76 | 368 | 500 |
| 26-Aug-16 | 3rd Hour | Sunny | 1.36 | 12:10 | 74 | 368 | 500 |
| | | _ | _ | Average | 70 | | |
| | | | | Min | 67 | 1 | |

Max

Remarks:

1-hour TSP Monitoring Results at Station AMS7 - Hong Kong SkyCity Marriott Hotel

| Date | Session | Weather Condition | averaged Wind Speed (m/s)* | Time (hh:mm) | Conc. (µg/m³) | Action Level (µg/m³) | Limit Level (µg/m³) |
|-----------|----------|----------------------|-------------------------------|-----------------|------------------|-------------------------|------------------------|
| 3-Aug-16 | 1st Hour | Cloudy | 0.24 | 10:00 | 68 | 370 | 500 |
| 3-Aug-16 | 2nd Hour | Cloudy | 0.76 | 11:00 | 67 | 370 | 500 |
| 3-Aug-16 | 3rd Hour | Cloudy | 0.04 | 12:00 | 67 | 370 | 500 |
| 9-Aug-16 | 1st Hour | Sunny | 0.01 | 10:02 | 72 | 370 | 500 |
| 9-Aug-16 | 2nd Hour | Sunny | 0.11 | 11:02 | 74 | 370 | 500 |
| 9-Aug-16 | 3rd Hour | Sunny | 1.09 | 12:02 | 73 | 370 | 500 |
| 15-Aug-16 | 1st Hour | Cloudy | 0.04 | 10:10 | 75 | 370 | 500 |
| 15-Aug-16 | 2nd Hour | Cloudy | 0.03 | 11:10 | 75 | 370 | 500 |
| 15-Aug-16 | 3rd Hour | Cloudy | 0.03 | 12:10 | 74 | 370 | 500 |
| 20-Aug-16 | 1st Hour | Sunny | 0.01 | 9:50 | 64 | 370 | 500 |
| 20-Aug-16 | 2nd Hour | Sunny | 0.00 | 10:50 | 66 | 370 | 500 |
| 20-Aug-16 | 3rd Hour | Sunny | 0.01 | 11:50 | 65 | 370 | 500 |
| 26-Aug-16 | 1st Hour | Sunny | 0.04 | 10:20 | 75 | 370 | 500 |
| 26-Aug-16 | 2nd Hour | Sunny | 0.41 | 11:20 | 76 | 370 | 500 |
| 26-Aug-16 | 3rd Hour | Sunny | 1.36 | 12:20 | 73 | 370 | 500 |
| | · | | | Average | 71 | | · |

[^] Action Level set out at AMS3 Ho Yu College is adopted.

Appendix G Impact Air Quality Monitoring Results

24-hour TSP Monitoring Results at Station AMS2 - Tung Chung Development Pier

| Start | Start | End | End | Weather | Air | Atmospheric | Flow Rate | (m³/min.) | Av. flow | Total vol. | Filter W | eight (g) | Particulate | Elaps | e Time | Sampling | Conc. | Actino Level | Limit Level |
|-----------|-------|-----------|-------|-----------|------------|---------------|-----------|-----------|-----------------------|-------------------|----------|-----------|-------------|---------|---------|------------|----------------------|--------------|----------------------|
| Date | Time | Date | Time | Condition | Temp. (°C) | Pressure(hPa) | Initial | Final | (m ³ /min) | (m ³) | Initial | Final | weight(g) | Initial | Final | Time(hrs.) | (µg/m ³) | (µg/m³) | (µg/m ³) |
| 5-Aug-16^ | 12:00 | 6-Aug-16 | 12:00 | Fine | 29.3 | 1008.3 | 1.33 | 1.33 | 1.33 | 1909.4 | 2.7849 | 2.8206 | 0.0357 | 6744.04 | 6768.04 | 24.00 | 19 | 176 | 260 |
| 8-Aug-16 | 16:00 | 9-Aug-16 | 16:00 | Sunny | 29.2 | 1001.8 | 1.33 | 1.33 | 1.33 | 1909.4 | 2.7953 | 2.8509 | 0.0556 | 6768.04 | 6792.04 | 24.00 | 29 | 176 | 260 |
| 15-Aug-16 | 9:00 | 16-Aug-16 | 9:00 | Cloudy | 26.6 | 997.4 | 1.33 | 1.33 | 1.33 | 1909.4 | 2.8502 | 2.8956 | 0.0454 | 6792.04 | 6816.04 | 24.00 | 24 | 176 | 260 |
| 19-Aug-16 | 16:00 | 20-Aug-16 | 16:00 | Sunny | 29.2 | 1004.7 | 1.33 | 1.33 | 1.33 | 1909.4 | 2.8422 | 2.9160 | 0.0738 | 6816.04 | 6840.04 | 24.00 | 39 | 176 | 260 |
| 25-Aug-16 | 16:00 | 26-Aug-16 | 16:00 | Sunny | 30.4 | 1004.6 | 1.33 | 1.33 | 1.33 | 1909.4 | 2.8813 | 2.9353 | 0.0540 | 6840.04 | 6864.04 | 24.00 | 28 | 176 | 260 |

 Average
 28

 Min
 19

 Max
 39

Min

Max

10

31

24-hour TSP Monitoring Results at Station AMS3B - Site Boundary of Site Office (WA2)

| Start | Start | End | End | Weather | Air | Atmospheric | Flow Rate (m³/min.) | | Av. flow | Total vol. | Filter Weight (g) | | Particulate | ılate Elapse Time | | Sampling | Conc. | Actino Level | Limit Level |
|-----------|-------|-----------|-------|-----------|------------|---------------|---------------------|-------|-----------------------|-------------------|-------------------|--------|-------------|-------------------|---------|------------|---------------|----------------------|----------------------|
| Date | Time | Date | Time | Condition | Temp. (°C) | Pressure(hPa) | Initial | Final | (m ³ /min) | (m ³) | Initial | Final | weight(g) | Initial | Final | Time(hrs.) | $(\mu g/m^3)$ | (µg/m ³) | (µg/m ³) |
| 3-Aug-16 | 13:00 | 4-Aug-16 | 13:00 | Fine | 29.3 | 1008.3 | 1.34 | 1.34 | 1.34 | 1923.8 | 2.8056 | 2.8362 | 0.0306 | 7519.38 | 7543.38 | 24.00 | 16 | 167 | 260 |
| 8-Aug-16 | 16:00 | 9-Aug-16 | 16:00 | Sunny | 29.2 | 1001.8 | 1.34 | 1.34 | 1.34 | 1923.8 | 2.8073 | 2.8257 | 0.0184 | 7543.38 | 7567.38 | 24.00 | 10 | 167 | 260 |
| 15-Aug-16 | 9:00 | 16-Aug-16 | 9:00 | Cloudy | 26.6 | 997.4 | 1.34 | 1.34 | 1.34 | 1923.8 | 2.8361 | 2.8714 | 0.0353 | 7567.38 | 7591.38 | 24.00 | 18 | 167 | 260 |
| 19-Aug-16 | 16:00 | 20-Aug-16 | 16:00 | Sunny | 29.2 | 1004.7 | 1.34 | 1.34 | 1.34 | 1923.8 | 2.8092 | 2.8683 | 0.0591 | 7591.38 | 7615.38 | 24.00 | 31 | 167 | 260 |
| 25-Aug-16 | 16:00 | 26-Aug-16 | 16:00 | Sunny | 30.4 | 1004.6 | 1.34 | 1.34 | 1.34 | 1923.8 | 2.8774 | 2.8964 | 0.0190 | 7615.38 | 7639.38 | 24.00 | 10 | 167 | 260 |
| | | | | | | | | | | | | | | | | Average | 17 | | • |

^ Action Level set out at AMS3 Ho Yu College is adopted.

24-hour TSP Monitoring Results at Station AMS7 - Hong Kong SkyCity Marriott Hotel

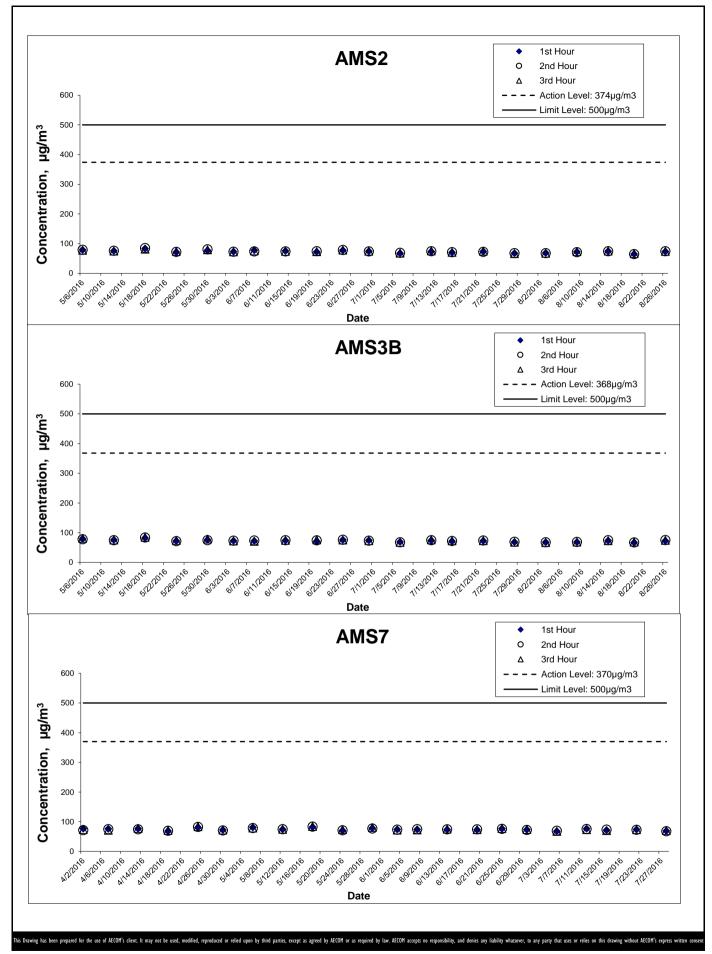
| Date Time Date Time Condition Temp. (°C) Pressure(hPa) Initial Final weight(g) Initial Final Time(hrs.) (μq/m³) (μq/m³) (μq/m³) 3-Aug-16 13:00 4-Aug-16 13:00 Fine 29.3 1008.3 1.30 1.30 1869.1 2.7830 2.8285 0.0455 6435.91 6459.91 24.00 24 183 260 8-Aug-16 16:00 9-Aug-16 16:00 Sunny 29.2 1001.8 1.30 1.30 1869.1 2.8065 2.8950 0.0885 6459.91 6483.91 24.00 47 183 260 15-Aug-16 9:00 16-Aug-16 9:00 Cloudy 26.6 997.4 1.30 1.30 1.30 1869.1 2.8129 2.8523 0.0394 6483.91 6507.91 24.00 21 183 260 19-Aug-16 16:00 20-Aug-16 16:00 Sunny 29.2 1004.7 1.30 1.30 <th>Start</th> <th>Start</th> <th>End</th> <th>End</th> <th>Weather</th> <th>Air</th> <th>Atmospheric</th> <th>Flow Rate</th> <th>(m³/min.)</th> <th>Av. flow</th> <th>Total vol.</th> <th colspan="2">Total vol. Filter Weight (g)</th> <th>Particulate</th> <th colspan="2">e Elapse Time</th> <th>Sampling</th> <th>Conc.</th> <th>Actino Level</th> <th>Limit Level</th> | Start | Start | End | End | Weather | Air | Atmospheric | Flow Rate | (m³/min.) | Av. flow | Total vol. | Total vol. Filter Weight (g) | | Particulate | e Elapse Time | | Sampling | Conc. | Actino Level | Limit Level |
|---|-----------|-------|-----------|-------|-----------|------------|---------------|-----------|-----------|-----------------------|-------------------|------------------------------|--------|-------------|---------------|---------|------------|----------------------|--------------|----------------------|
| 8-Aug-16 16:00 9-Aug-16 16:00 Sunny 29.2 1001.8 1.30 1.30 1.30 1869.1 2.8065 2.8950 0.0885 6459.91 6483.91 24.00 47 183 260 15-Aug-16 9:00 16-Aug-16 9:00 Cloudy 26.6 997.4 1.30 1.30 1.30 1869.1 2.8129 2.8523 0.0394 6483.91 6507.91 24.00 21 183 260 19-Aug-16 16:00 20-Aug-16 16:00 Sunny 29.2 1004.7 1.30 1.30 1.30 1869.1 2.8156 2.8917 0.0761 6507.91 6531.91 24.00 41 183 260 | Date | Time | Date | Time | Condition | Temp. (°C) | Pressure(hPa) | Initial | Final | (m ³ /min) | (m ³) | Initial | Final | weight(g) | Initial | Final | Time(hrs.) | (µg/m ³) | (µg/m³) | (µg/m ³) |
| 15-Aug-16 9:00 16-Aug-16 9:00 Cloudy 26.6 997.4 1.30 1.30 1.30 1.869.1 2.8129 2.8523 0.0394 6483.91 6507.91 24.00 21 183 260 19-Aug-16 16:00 20-Aug-16 16:00 Sunny 29.2 1004.7 1.30 1.30 1.30 1.869.1 2.8156 2.8917 0.0761 6507.91 6531.91 24.00 41 183 260 | 3-Aug-16 | 13:00 | 4-Aug-16 | 13:00 | Fine | 29.3 | 1008.3 | 1.30 | 1.30 | 1.30 | 1869.1 | 2.7830 | 2.8285 | 0.0455 | 6435.91 | 6459.91 | 24.00 | 24 | 183 | 260 |
| 19-Aug-16 16:00 20-Aug-16 16:00 Sunny 29.2 1004.7 1.30 1.30 1.30 1869.1 2.8156 2.8917 0.0761 6507.91 6531.91 24.00 41 183 260 | 8-Aug-16 | 16:00 | 9-Aug-16 | 16:00 | Sunny | 29.2 | 1001.8 | 1.30 | 1.30 | 1.30 | 1869.1 | 2.8065 | 2.8950 | 0.0885 | 6459.91 | 6483.91 | 24.00 | 47 | 183 | 260 |
| | 15-Aug-16 | 9:00 | 16-Aug-16 | 9:00 | Cloudy | 26.6 | 997.4 | 1.30 | 1.30 | 1.30 | 1869.1 | 2.8129 | 2.8523 | 0.0394 | 6483.91 | 6507.91 | 24.00 | 21 | 183 | 260 |
| 25-Aug-16 16:00 26-Aug-16 16:00 Sunny 30.4 1004.6 1.30 1.30 1.30 1.869.1 2.8790 2.9378 0.0588 6531.91 6555.91 24.00 31 183 260 | 19-Aug-16 | 16:00 | 20-Aug-16 | 16:00 | Sunny | 29.2 | 1004.7 | 1.30 | 1.30 | 1.30 | 1869.1 | 2.8156 | 2.8917 | 0.0761 | 6507.91 | 6531.91 | 24.00 | 41 | 183 | 260 |
| | 25-Aug-16 | 16:00 | 26-Aug-16 | 16:00 | Sunny | 30.4 | 1004.6 | 1.30 | 1.30 | 1.30 | 1869.1 | 2.8790 | 2.9378 | 0.0588 | 6531.91 | 6555.91 | 24.00 | 31 | 183 | 260 |

 Average
 33

 Min
 21

 Max
 47

Remarks: ^ 24-hour TSP monitoring at AMS2 was rescheduled on 5 Aug 2016 due to electricity failure.



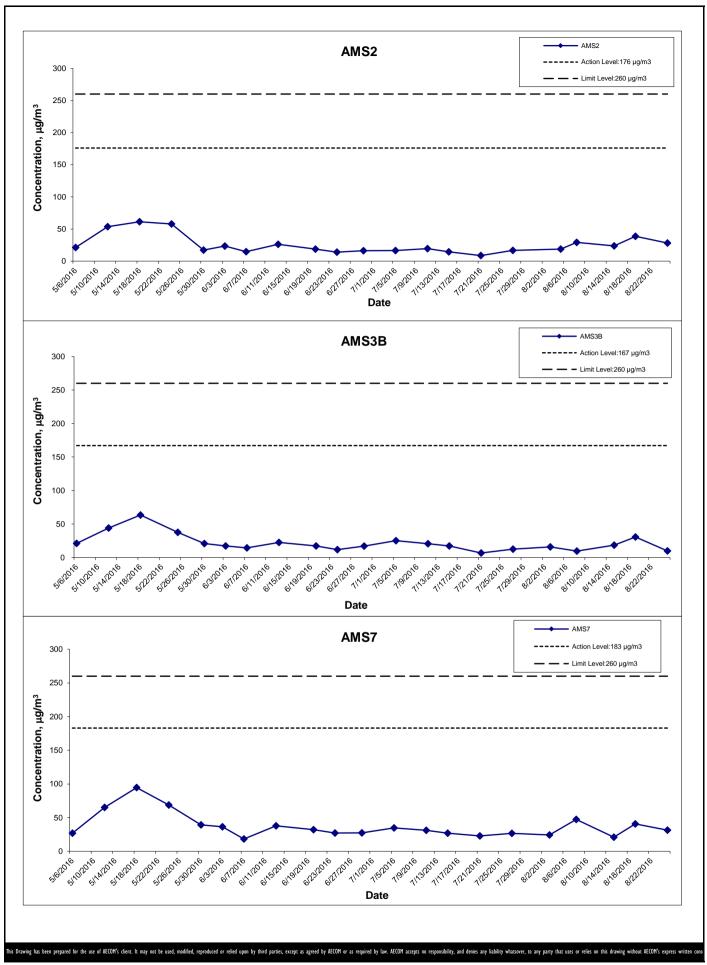
HONG KONG - ZHUHAI - MACAO BRIDGE
HONG KONG BOUNDARY CROSSING FACILITIES
- RECLAMATION WORKS
Gra

Graphical Presentation of Impact 1-hour TSP

Monitoring Results

AECOM

Project No.: 60249820 Date: September2016 Appendix G



HONG KONG - ZHUHAI - MACAO BRIDGE
HONG KONG BOUNDARY CROSSING FACILITIES
- RECLAMATION WORKS
Gra

Graphical Presentation of Impact 24-hour TSP

Monitoring Results

sentation of Impact 24-hour TSP



Project No.: 60249820 Date: September 2016 Appendix G

APPENDIX H Meteorological Data for Monitoring Periods on Monitoring Dates in August 2016

WIND DATA

| ND DATA | | | |
|------------|----------|---------------------------|-----------------------------------|
| Date | Time | Averaged Wind Speed (m/s) | Averaged Wind Direction (degrees) |
| 03/08/2016 | 12:40:29 | 0.04 | 265 |
| 03/08/2016 | 13:40:29 | 0.53 | 0 |
| 03/08/2016 | 14:40:29 | 0.08 | 208 |
| 03/08/2016 | 15:40:29 | 2.43 | 129 |
| 03/08/2016 | 16:40:29 | 0.46 | 145 |
| 03/08/2016 | 17:40:29 | 0.63 | 126 |
| 03/08/2016 | 18:40:29 | 1.15 | 178 |
| 03/08/2016 | 19:40:29 | 3.08 | 141 |
| 03/08/2016 | 20:40:29 | 2.17 | 148 |
| 03/08/2016 | 21:40:29 | 0.57 | 111 |
| 03/08/2016 | 22:40:29 | 2.50 | 143 |
| 03/08/2016 | 23:40:29 | 2.04 | 157 |
| 04/08/2016 | 00:40:29 | 0.38 | 148 |
| 04/08/2016 | 01:40:29 | 1.89 | 127 |
| 04/08/2016 | 02:40:29 | 0.41 | 136 |
| 04/08/2016 | 03:40:29 | 1.58 | 124 |
| 04/08/2016 | 04:40:29 | 0.71 | 166 |
| 04/08/2016 | 05:40:29 | 0.83 | 151 |
| 04/08/2016 | 06:40:29 | 0.04 | 161 |
| 04/08/2016 | 07:40:29 | 0.77 | 129 |
| 04/08/2016 | 08:40:29 | 1.06 | 140 |
| 04/08/2016 | 09:40:29 | 0.15 | 118 |
| 04/08/2016 | 10:40:29 | 0.01 | 164 |
| 04/08/2016 | 11:40:29 | 0.99 | 163 |
| 04/08/2016 | 12:40:29 | 0.03 | 297 |
| 04/08/2016 | 13:40:29 | 2.52 | 139 |
| 04/08/2016 | 14:40:29 | 1.52 | 117 |
| 05/08/2016 | 11:40:29 | 0.24 | -53 |
| 05/08/2016 | 12:40:29 | 0.00 | 346 |
| 05/08/2016 | 13:40:29 | 0.62 | 37 |
| 05/08/2016 | 14:40:29 | 0.32 | 334 |
| 05/08/2016 | 15:40:29 | 0.32 | 79 |
| | | | |
| 05/08/2016 | 16:40:29 | 0.53 | 141 |
| 05/08/2016 | 17:40:29 | 1.08 | 128 |
| 05/08/2016 | 18:40:29 | 1.01 | 136 |
| 05/08/2016 | 19:40:29 | 0.21 | 149 |
| 05/08/2016 | 20:40:29 | 0.35 | 1 |
| 05/08/2016 | 21:40:29 | 0.13 | 1 |
| 05/08/2016 | 22:40:29 | 0.13 | 302 |
| 05/08/2016 | 23:40:29 | 0.31 | 125 |
| 06/08/2016 | 00:40:29 | 0.08 | 258 |
| 06/08/2016 | 01:40:29 | 0.00 | 141 |
| 06/08/2016 | 02:40:29 | 0.01 | 298 |
| 06/08/2016 | 03:40:29 | 0.01 | 138 |
| 06/08/2016 | 04:40:29 | 0.00 | 286 |
| 06/08/2016 | 05:40:29 | 0.04 | 150 |
| 06/08/2016 | 06:40:29 | 0.03 | 300 |
| 06/08/2016 | 07:40:29 | 0.03 | 120 |
| 06/08/2016 | 08:40:29 | 0.00 | 235 |
| 06/08/2016 | 09:40:29 | 1.51 | 326 |
| 06/08/2016 | 10:40:29 | 0.29 | 346 |
| 06/08/2016 | 11:40:29 | 0.13 | 293 |
| 06/08/2016 | 12:40:29 | 0.70 | 9 |
| 06/08/2016 | 13:40:29 | 0.10 | 331 |
| 08/08/2016 | 15:40:29 | 0.63 | 331 |
| 08/08/2016 | 16:40:29 | 1.06 | 139 |
| | | | |
| 08/08/2016 | 17:40:29 | 0.50 | 119 |
| 08/08/2016 | 18:40:29 | 0.55 | 133 |
| 08/08/2016 | 19:40:29 | 0.41 | 308 |
| 08/08/2016 | 20:40:29 | 0.13 | 108 |
| 08/08/2016 | 21:40:29 | 0.10 | 139 |
| 08/08/2016 | 22:40:29 | 0.04 | 347 |
| 08/08/2016 | 23:40:29 | 0.07 | 150 |
| 09/08/2016 | 00:40:29 | 0.01 | 88 |
| 09/08/2016 | 01:40:29 | 0.24 | 155 |
| 09/08/2016 | 02:40:29 | 0.01 | 137 |
| 09/08/2016 | 03:40:29 | 0.00 | 308 |
| 09/08/2016 | 04:40:29 | 0.03 | 23 |
| 09/08/2016 | 05:40:29 | 0.00 | 114 |
| 09/08/2016 | 06:40:29 | 0.03 | 329 |
| 09/08/2016 | 07:40:29 | 0.01 | 129 |
| 09/08/2016 | 08:40:29 | 0.53 | 314 |
| 09/08/2016 | 09:40:29 | 0.01 | 107 |
| 09/08/2016 | 10:40:29 | 0.11 | 309 |
| 09/08/2016 | 11:40:29 | 1.09 | 5 |
| 09/08/2016 | 12:40:29 | 0.01 | 12 |
| 09/08/2016 | 13:40:29 | 0.01 | 113 |
| 09/08/2016 | 14:40:29 | 1.05 | 137 |
| 09/08/2016 | 15:40:29 | 0.01 | 125 |
| | | | |
| 09/08/2016 | 16:40:29 | 0.21 | 129 |
| 09/08/2016 | 17:40:29 | 1.09 | 127 |
| 15/08/2016 | 08:40:29 | 0.15 | 133 |
| 15/08/2016 | 09:40:29 | 0.03 | 91 |
| 15/08/2016 | 10:40:29 | 0.04 | 46 |
| 15/08/2016 | 11:34:25 | 0.03 | 56 |
| 15/08/2016 | 12:34:25 | 0.03 | 99 |
| 15/08/2016 | 13:34:25 | 0.03 | 83 |
| 15/08/2016 | 14:34:25 | 0.22 | 297 |
| 15/08/2016 | 15:34:25 | 0.00 | 320 |
| 15/08/2016 | 16:34:25 | 0.41 | 315 |
| | | | |

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Appendix H Wind Data

APPENDIX H Meteorological Data for Monitoring Periods on Monitoring Dates in August 2016

WIND DATA

| WIND DATA | | | |
|------------|----------|---------------------------|-----------------------------------|
| Date | Time | Averaged Wind Speed (m/s) | Averaged Wind Direction (degrees) |
| 15/08/2016 | 17:34:25 | 0.59 | 280 |
| 15/08/2016 | 18:34:25 | 0.08 | 289 |
| 15/08/2016 | 19:34:25 | 0.13 | 271 |
| 15/08/2016 | 20:34:25 | 0.14 | 288 |
| | | | |
| 15/08/2016 | 21:34:25 | 0.18 | 55 |
| 15/08/2016 | 22:34:25 | 0.90 | 132 |
| 15/08/2016 | 23:34:25 | 1.69 | 117 |
| 16/08/2016 | 00:34:25 | 0.04 | 122 |
| 16/08/2016 | 01:34:25 | 0.06 | 159 |
| | | 0.03 | 312 |
| 16/08/2016 | 02:34:25 | | |
| 16/08/2016 | 03:34:25 | 0.04 | 285 |
| 16/08/2016 | 04:34:25 | 0.06 | 285 |
| 16/08/2016 | 05:34:25 | 0.07 | 274 |
| 16/08/2016 | 06:34:25 | 0.31 | 132 |
| 16/08/2016 | 07:34:25 | 0.15 | 304 |
| 16/08/2016 | 08:34:25 | 0.14 | 127 |
| | | | |
| 16/08/2016 | 09:34:25 | 0.15 | 125 |
| 16/08/2016 | 10:34:25 | 0.08 | 129 |
| 19/08/2016 | 15:34:25 | 0.10 | 94 |
| 19/08/2016 | 16:34:25 | 0.21 | 148 |
| 19/08/2016 | 17:34:25 | 0.10 | 75 |
| | | | |
| 19/08/2016 | 18:34:25 | 0.81 | 119 |
| 19/08/2016 | 19:34:25 | 0.20 | 69 |
| 19/08/2016 | 20:34:25 | 1.55 | 88 |
| 19/08/2016 | 21:34:25 | 2.73 | 128 |
| 19/08/2016 | 22:34:25 | 0.71 | 305 |
| | | | |
| 19/08/2016 | 23:34:25 | 0.49 | 328 |
| 20/08/2016 | 00:34:25 | 0.98 | 161 |
| 20/08/2016 | 01:34:25 | 0.31 | 55 |
| 20/08/2016 | 02:34:25 | 0.29 | 60 |
| 20/08/2016 | 03:34:25 | 0.28 | 284 |
| 20/08/2016 | 04:34:25 | 0.27 | 328 |
| | | | |
| 20/08/2016 | 05:34:25 | 0.42 | 289 |
| 20/08/2016 | 06:34:25 | 0.29 | 113 |
| 20/08/2016 | 07:34:25 | 0.10 | 304 |
| 20/08/2016 | 08:34:25 | 0.10 | 112 |
| 20/08/2016 | 09:34:25 | 0.01 | 81 |
| | 10:34:25 | 0.00 | 104 |
| 20/08/2016 | | | |
| 20/08/2016 | 11:34:25 | 0.01 | 103 |
| 20/08/2016 | 12:34:25 | 0.04 | 71 |
| 20/08/2016 | 13:34:25 | 1.51 | 288 |
| 20/08/2016 | 14:34:25 | 0.69 | 274 |
| 20/08/2016 | 15:34:25 | 0.64 | 296 |
| | | | |
| 20/08/2016 | 16:34:25 | 0.15 | 105 |
| 20/08/2016 | 17:34:25 | 0.25 | 144 |
| 25/08/2016 | 15:34:25 | 0.29 | 53 |
| 25/08/2016 | 16:34:25 | 1.38 | 139 |
| 25/08/2016 | 17:34:25 | 0.00 | 59 |
| | | | |
| 25/08/2016 | 18:34:25 | 0.08 | 39 |
| 25/08/2016 | 19:34:25 | 0.10 | 319 |
| 25/08/2016 | 20:34:25 | 0.04 | 95 |
| 25/08/2016 | 21:34:25 | 0.03 | 301 |
| 25/08/2016 | 22:34:25 | 0.14 | 244 |
| 25/08/2016 | 23:34:25 | 0.04 | 305 |
| | | | |
| 26/08/2016 | 00:34:25 | 0.01 | 125 |
| 26/08/2016 | 01:34:25 | 0.01 | 119 |
| 26/08/2016 | 02:34:25 | 0.03 | 181 |
| 26/08/2016 | 03:34:25 | 0.03 | 288 |
| 26/08/2016 | 04:34:25 | 0.03 | 297 |
| 26/08/2016 | 05:34:25 | 0.03 | 285 |
| | | | |
| 26/08/2016 | 06:34:25 | 0.03 | 179 |
| 26/08/2016 | 07:34:25 | 0.01 | 312 |
| 26/08/2016 | 08:34:25 | 0.04 | 79 |
| 26/08/2016 | 09:34:25 | 0.66 | 145 |
| 26/08/2016 | 10:34:25 | 0.04 | 147 |
| | | | |
| 26/08/2016 | 11:34:25 | 0.41 | 32 |
| 26/08/2016 | 12:34:25 | 1.36 | 332 |
| 26/08/2016 | 13:34:25 | 0.36 | 25 |
| 26/08/2016 | 14:34:25 | 0.64 | 304 |
| 26/08/2016 | 15:34:25 | 0.24 | 150 |
| | | | |
| 26/08/2016 | 16:34:25 | 1.31 | 159 |
| 26/08/2016 | 17:34:25 | 0.01 | 91 |
| | | | |

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Appendix H Wind Data

Appendix I Impact Daytime Construction Noise Monitoring Results

Daytime Noise Monitoring Results at Station NMS2 - Seaview Crescent Tower 1

Average

| | | Nois | se Level for 30 | O-min, dB(A) | | | | | |
|-----------|----------------------|-------|-----------------|--------------|-----|---------------------------|--------------------------------|-----------------------|------------------|
| Date | Weather Condition | Time | L90 | L10 | Leq | Averaged Wind Speed (m/s) | Baseline Noise Level, dB(A) | Limit Level, dB(A) | Exceedance (Y/N) |
| 3-Aug-16 | Cloudy | 10:35 | 65 | 70 | 68 | <5m/s | 62.9 | 75 | N |
| 9-Aug-16 | Sunny | 10:30 | 62 | 67 | 65 | <5m/s | 62.9 | 75 | N |
| 15-Aug-16 | Cloudy | 10:30 | 62 | 70 | 66 | <5m/s | 62.9 | 75 | N |
| 26-Aug-16 | Sunny | 10:30 | 65 | 70 | 68 | <5m/s | 62.9 | 75 | N |
| | | Min | 62 | 67 | 65 | | · | · | |
| | | May | 65 | 70 | 68 | | | | |

Daytime Noise Monitoring Results at Station NMS3B - Site Boundary of Site Office (WA2)

| | | Nois | se Level for 30 | O-min, dB(A)# | | | | | |
|-----------|----------------------|-------|-----------------|---------------|-----|---------------------------|----------------------------------|-------------------------|------------------|
| Date | Weather Condition | Time | L90 | L10 | Leq | Averaged Wind Speed (m/s) | Baseline Noise Level, dB(A) ^ | Limit Level, dB(A)** | Exceedance (Y/N) |
| 3-Aug-16 | Cloudy | 11:10 | 64 | 69 | 68 | <5m/s | 66.3 | 70 | N |
| 9-Aug-16 | Sunny | 11:25 | 58 | 65 | 62 | <5m/s | 66.3 | 70 | N |
| 15-Aug-16 | Cloudy | 11:17 | 62 | 69 | 67 | <5m/s | 66.3 | 70 | N |
| 26-Aug-16 | Sunny | 11:10 | 58 | 70 | 66 | <5m/s | 66.3 | 70 | N |
| | | Min | 58 | 65 | 62 | | | | |
| | | May | 64 | 70 | 68 | | | | |

Remark:

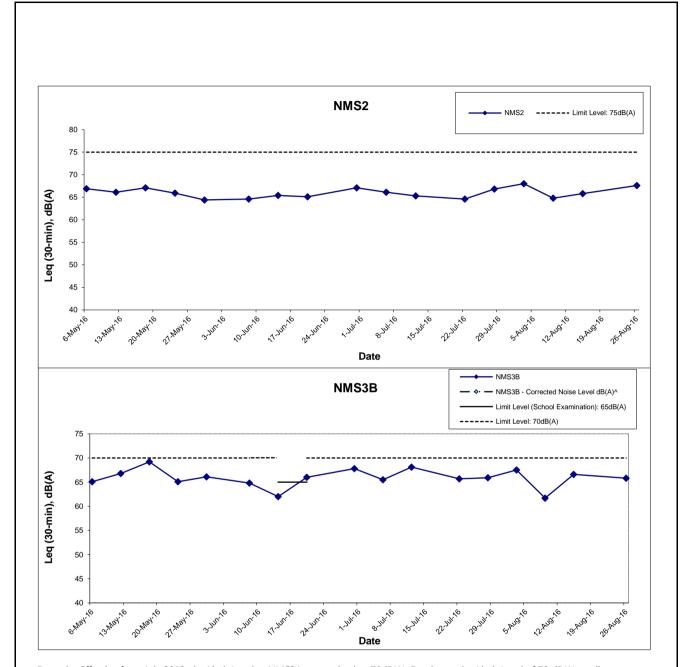
Average

[#] A correction of +3dB(A) was made to the free field measurement.

^{*} Façade measurement.

[^] Averaged baseline noise level recorded at NMS3 Ho Yu College is adopted.

^{**} Limit Level of 70dB(A) applies to education institutes while 65dB(A) applies during school examination period.



Remarks: Effective from July 2012, the Limit Level at NMS3A was revised to 70dB(A). Daytime noise Limit Level of 70 dB(A) applies to education institutions, while 65dB(A) applies during school examination period.

V The measured noise level on 20 Jun 2016 exceeded the noise level of 65dB(A) during examination period on 20 Jun 2016 but it is below the baseline level. Therefore, it is not considered as an exceedance. As such the EAP was not triggered.

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HONG KONG - ZHUHAI - MACAO BRIDGE

HONG KONG BOUNDARY CROSSING FACILITIES

- RECLAMATION WORKS

Graphical Presentation of Impact Daytime Construction Noise Monitoring Results

AECOM

Project No.: 60249820 Date: September 2016 Appendix I

Water Quality Monitoring Results at CS(Mf)3 - Mid-EbbTide

| Date | Weather | Sea | Sampling | Water | Samp | ling | Tempera | ature (°C) | | Н | Salini | ty (ppt) | DO Satu | ration (%) | Dissol | ved Oxygen | (mg/L) | Т | urbidity(NTl | J) | Suspe | nded Solids | (mg/L) |
|-----------|-----------|-------------|----------|-----------|---------|------|--------------|------------|-------------------|---------|--------------|----------|--------------|------------|------------|------------|----------|------------|--------------|-----|-------------------|-------------|----------|
| | Condition | Condition** | Time | Depth (m) | Depth | (m) | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | DA* | Value | Average | DA* | Value | Average | DA* |
| 1-Aug-16^ | Cloudy | Moderate | - | | Surface | - | - | - | - | - | - | - | - | - | - | - | | - | - | | - | - | |
| | | | | - | Middle | - | - | - | - | - | - | - | - | - | - | - | - | - | - | = | - | - | = |
| | | | | | Bottom | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | - | - | |
| 3-Aug-16 | Cloudy | Moderate | 12:41 | | Surface | 1.0 | 26.0 26.0 | 26.0 | 7.9 8.0 | 8.0 | 26.7 26.7 | 26.7 | 79.0 79.6 | 79.3 | 5.5 5.5 | 5.5 | | 7.4 7.4 | 7.4 | | 11.3 11.5 | 11.4 | |
| | | | | 7.1 | Middle | 3.6 | 25.8 25.8 | 25.8 | 7.9 7.9 | 7.9 | 27.1 27.0 | 27.1 | 78.7 78.8 | 78.8 | 5.5 5.5 | 5.5 | 5.5 | 7.7 | 7.6 | 7.6 | 10.1 | 10.2 | 10.5 |
| | | | | | Bottom | 6.1 | 25.5 25.8 | 25.7 | 7.9 7.9 7.9 | 7.9 | 28.2 28.0 | 28.1 | 78.0 78.5 | 78.3 | 5.5 5.5 | 5.5 | 5.5 | 7.8 7.7 | 7.8 | | 10.3 | 9.8 | |
| 5-Aug-16 | Sunny | Moderate | 14:05 | | Surface | 1.0 | 28.0 | 28.0 | 8.0 | 8.0 | 22.4 | 22.5 | 74.3 | 74.4 | 5.1 | 5.1 | | 3.9 | 3.9 | | 3.8 | 3.8 | |
| | | | | 6.7 | Middle | 3.4 | 27.9 27.8 | 27.9 | 8.0 | 8.0 | 22.5 | 23.0 | 74.4 73.5 | 73.6 | 5.1 5.1 | 5.1 | 5.1 | 3.8 4.1 | 4.1 | 4.1 | 3.7 | 3.2 | 4.3 |
| | | | | | Bottom | 5.7 | 27.9 27.8 | 27.9 | 8.0 8.0 | 8.0 | 22.9 23.2 | 23.0 | 73.6 73.3 | 73.5 | 5.1 5.1 | 5.1 | 5.1 | 4.0 | 4.3 | | 3.1 4.9 | 6.0 | |
| 8-Aug-16 | Sunny | Moderate | 15:41 | | Surface | 1.0 | 28.0 30.1 | 29.9 | 8.0 8.0 | 8.0 | 22.7 19.9 | 19.5 | 73.6 81.9 | 82.5 | 5.1 5.7 | 5.7 | | 3.7 | 3.8 | | 7.0 | 2.7 | |
| | | | | 6.7 | Middle | 3.4 | 29.8 27.9 | 27.8 | 8.0 8.0 | 8.0 | 19.1 21.7 | 21.8 | 83.0 79.5 | 79.4 | 5.8 5.4 | 5.5 | 5.6 | 3.8 | 4.0 | 4.0 | 2.9 4.7 | 4.0 | 3.6 |
| | | | | | Bottom | 5.7 | 27.8 27.4 | 27.4 | 8.0 7.9 | 8.0 | 21.8 | 24.2 | 79.2 74.1 | 74.5 | 5.5 5.2 | 5.2 | 5.2 | 4.0 | 4.3 | | 3.3 | 4.0 | |
| 10-Aug-16 | Rainy | Moderate | 17:06 | | Surface | 1.0 | 27.4 27.7 | 27.8 | 8.0 | 8.1 | 24.0 20.8 | 20.7 | 74.9 82.4 | 82.3 | 5.2 5.6 | 5.7 | | 4.3 1.5 | 1.5 | | <u>4.1</u> 0.7 | 0.7 | |
| | | | | 6.7 | Middle | 3.4 | 28.0 27.3 | 27.2 | 8.1 8.0 | 8.0 | 20.6 22.8 | 23.8 | 82.2 80.8 | 80.7 | 5.7 5.6 | 5.6 | 5.7 | 1.5 1.6 | 1.7 | 1.7 | 1.2 | 1.2 | 1.1 |
| | | | | | Bottom | 5.7 | 27.2 26.9 | 27.3 | 7.9 | 8.0 | 24.9 26.0 | 25.9 | 80.5 79.5 | 79.8 | 5.6 5.6 | 5.5 | 5.5 | 1.7 | 1.8 | | 1.2 | 1.5 | |
| 12-Aug-16 | Rainy | Moderate | 08:22 | | Surface | 1.0 | 27.7 27.8 | 27.9 | 8.0 8.0 | 8.1 | 25.7 15.9 | 16.1 | 80.1 84.6 | 84.3 | 5.5 6.0 | 6.0 | | 1.8 | 1.1 | | 0.5 | 0.5 | |
| | | | | 7.1 | Middle | 3.6 | 27.9 26.3 | 26.4 | 8.1 7.9 | 7.9 | 16.3 24.2 | 24.8 | 83.9 76.3 | 79.7 | 6.0 5.3 | 5.5 | 5.8 | 1.1 | 1.2 | 1.2 | 0.5 2.8 | 2.7 | 2.1 |
| | | | | , | Bottom | 6.1 | 26.5 26.2 | 26.3 | 7.9 7.9 | 7.9 | 25.3 27.4 | 27.4 | 83.1 71.5 | 73.7 | 5.8 5.1 | 5.2 | 5.2 | 1.3 1.4 | 1.4 | 1.2 | 2.6 3.9 | 3.2 | |
| 15-Aug-16 | Cloudy | Moderate | 10:53 | | Surface | 1.0 | 26.4 27.1 | 27.2 | 7.9 8.0 | 8.0 | 27.4 23.1 | 22.8 | 75.8 77.5 | 77.2 | 5.2 5.5 | 5.5 | 0.2 | 1.3 4.4 | 4.4 | | 2.4 5.7 | 5.3 | |
| | | | | 6.7 | Middle | 3.4 | 27.2 25.9 | 25.9 | 8.0 7.9 | 7.9 | 22.5 27.8 | 27.6 | 76.9 75.4 | 76.0 | 5.5 5.4 | 5.4 | 5.5 | 4.4 | 4.8 | 4.7 | 4.8 6.2 | 5.5 | 5.4 |
| | | | | 0.7 | Bottom | 5.7 | 25.9 25.7 | 25.7 | 7.9 7.9 | 7.9 | 27.4 28.8 | 28.8 | 76.5 74.7 | 75.4 | 5.5 5.3 | 5.4 | 5.4 | 4.7 4.9 | 4.9 | 4.7 | 4.8 5.3 | 5.4 | 3.4 |
| 17-Aug-16 | Rainy | Moderate | 12:38 | <u> </u> | Surface | 1.0 | 25.7 26.3 | 26.3 | 7.9 8.0 | 8.0 | 28.8 27.1 | 27.0 | 76.1 84.6 | 88.7 | 5.4 5.9 | 6.2 | 3.4 | 4.9 2.8 | 2.9 | | 5.4 5.0 | 4.2 | |
| - | | | | 6.5 | | 3.3 | 26.4 26.0 | 26.0 | 8.0 8.0 | 8.0 | 26.9 27.8 | 27.8 | 92.8 86.6 | 85.3 | 6.5 6.0 | 5.9 | 6.1 | 3.0 4.1 | | 3.7 | 3.4 3.7 | | 2.0 |
| | | | | 6.0 | Middle | | 26.0 25.9 | | 8.0 8.0 | | 27.8 28.3 | | 83.9 84.8 | | 5.9 5.9 | | . | 4.1 4.1 | 4.1 | 3.1 | 3.9 2.9 | 3.8 | 3.8 |
| 19-Aug-16 | Fine | Moderate | 12:58 | | Bottom | 5.5 | 26.2 26.5 | 26.0 | 8.0 8.0 | 8.0 | 27.7 28.3 | 28.0 | 82.9 74.7 | 83.9 | 5.8 5.1 | 5.8 | 5.8 | 4.2 6.2 | 4.2 | | 3.9 5.8 | 3.4 | |
| | | | 12.00 | a - | Surface | 1.0 | 26.5 26.2 | 26.5 | 8.0 8.0 | 8.0 | 28.4 28.8 | 28.4 | 74.9 74.6 | 74.8 | 5.1 5.1 | 5.1 | 5.1 | 6.3 | 6.3 | | 5.8 | 5.8 | |
| | | | | 6.5 | Middle | 3.3 | 26.3 26.1 | 26.3 | 8.0 8.0 | 8.0 | 28.5 28.9 | 28.7 | 74.1 73.7 | 74.4 | 5.1 5.1 | 5.1 | | 6.4 | 6.4 | 6.5 | 6.5 8.1 | 6.6 | 6.6 |
| | | | | | Bottom | 5.5 | 26.2 | 26.2 | 8.0 | 8.0 | 28.9 | 28.9 | 73.5 | 73.6 | 5.0 | 5.1 | 5.1 | 6.6 | 6.7 | | 6.8 | 7.5 | <u> </u> |

Remarks:

* DA: Depth-Averaged

** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at CS(Mf)3 - Mid-EbbTide

| Date | Weather | Sea | Sampling | Water | Samp | ling | Tempera | ature (°C) | | ρΗ | Salini | ty (ppt) | DO Satu | ration (%) | Dissol | ved Oxygen | (mg/L) | 1 | urbidity(NTl | J) | Susper | nded Solids | s (mg/L) |
|-----------|-----------|-------------|----------|-----------|---------|------|--------------|------------|------------|---------|--------------|----------|--------------|------------|------------|------------|--------|------------|--------------|-----|------------|-------------|----------|
| | Condition | Condition** | Time | Depth (m) | Depth | (m) | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | DA* | Value | Average | DA* | Value | Average | DA* |
| 22-Aug-16 | Sunny | Moderate | 15:01 | | Surface | 1.0 | 28.2 28.2 | 28.2 | 8.0 8.0 | 8.0 | 22.6 22.7 | 22.7 | 76.5 76.6 | 76.6 | 5.3 5.3 | 5.3 | 5.3 | 9.2 9.2 | 9.2 | | 6.0 6.1 | 6.1 | |
| | | | | 6.6 | Middle | 3.3 | 27.7 27.8 | 27.8 | 8.0 8.0 | 8.0 | 24.6 24.4 | 24.5 | 75.6 75.5 | 75.6 | 5.3 5.3 | 5.3 | 5.5 | 9.4 9.3 | 9.4 | 9.4 | 6.2 5.7 | 6.0 | 6.1 |
| | | | | | Bottom | 5.6 | 27.6 28.0 | 27.8 | 8.0 8.0 | 8.0 | 25.0 24.8 | 24.9 | 74.9 74.7 | 74.8 | 5.2 5.2 | 5.2 | 5.2 | 9.6 9.5 | 9.6 | | 5.5 6.6 | 6.1 | |
| 24-Aug-16 | Sunny | Moderate | 16:15 | | Surface | 1.0 | 28.6 29.4 | 29.0 | 8.1 8.1 | 8.1 | 18.8 18.4 | 18.6 | 78.3 79.5 | 78.9 | 5.4 5.4 | 5.4 | 5.4 | 3.3 3.4 | 3.4 | | 2.8 2.6 | 2.7 | |
| | | | | 7.0 | Middle | 3.5 | 28.2 28.3 | 28.3 | 8.0 8.0 | 8.0 | 23.0 23.2 | 23.1 | 77.4 77.0 | 77.2 | 5.3 5.3 | 5.3 | 0.4 | 3.3 3.6 | 3.5 | 3.5 | 2.3 2.4 | 2.4 | 2.5 |
| | | | | | Bottom | 6.0 | 28.2 28.1 | 28.1 | 8.0 8.0 | 8.0 | 24.8 24.8 | 24.8 | 76.9 76.4 | 76.7 | 5.3 5.2 | 5.3 | 5.3 | 3.7 3.6 | 3.7 | | 2.3 2.2 | 2.3 | |
| 26-Aug-16 | Sunny | Moderate | 07:26 | | Surface | 1.0 | 29.7 29.6 | 29.7 | 8.0 8.0 | 8.0 | 11.6 12.8 | 12.2 | 83.4 83.1 | 83.3 | 5.9 5.9 | 5.9 | 5.8 | 3.7 3.7 | 3.7 | | 4.1 3.5 | 3.8 | |
| | | | | 6.3 | Middle | 3.2 | 29.3 29.4 | 29.4 | 7.9 8.0 | 7.9 | 16.6 15.1 | 15.8 | 80.4 80.1 | 80.3 | 5.6 5.5 | 5.6 | 5.0 | 3.8 3.9 | 3.9 | 3.9 | 4.9 4.7 | 4.8 | 4.3 |
| | | | | | Bottom | 5.3 | 29.5 29.5 | 29.5 | 8.0 7.9 | 7.9 | 17.0 17.7 | 17.3 | 77.8 77.3 | 77.6 | 5.4 5.5 | 5.5 | 5.5 | 4.0 3.9 | 4.0 | | 3.4 4.9 | 4.2 | |
| 29-Aug-16 | Sunny | Moderate | 11:31 | | Surface | 1.0 | 27.7 27.8 | 27.8 | 8.2 8.2 | 8.2 | 19.2 19.6 | 19.4 | 79.7 82.9 | 81.3 | 5.6 5.8 | 5.7 | 5.6 | 3.9 3.9 | 3.9 | | 5.1 5.8 | 5.5 | |
| | | | | 7.1 | Middle | 3.6 | 27.7 27.6 | 27.6 | 8.2 8.2 | 8.2 | 19.7 19.3 | 19.5 | 77.7 78.5 | 78.1 | 5.5 5.5 | 5.5 | 3.0 | 4.0 4.0 | 4.0 | 4.0 | 6.7 7.2 | 7.0 | 6.6 |
| | | | | | Bottom | 6.1 | 27.5 27.5 | 27.5 | 8.2 8.2 | 8.2 | 20.8 20.8 | 20.8 | 78.2 73.5 | 75.9 | 5.5 5.2 | 5.3 | 5.3 | 4.1 4.0 | 4.1 | | 7.1 7.3 | 7.2 | |
| 31-Aug-16 | Sunny | Moderate | 12:22 | | Surface | 1.0 | 28.6 28.3 | 28.4 | 8.0 8.0 | 8.0 | 26.3 26.6 | 26.5 | 78.4 78.3 | 78.4 | 5.2 5.2 | 5.2 | 5.2 | 4.2 4.3 | 4.3 | | 6.3 6.7 | 6.5 | |
| | | | | 6.6 | Middle | 3.3 | 28.0 28.0 | 28.0 | 8.0 8.0 | 8.0 | 27.5 27.2 | 27.3 | 77.2 76.7 | 77.0 | 5.2 5.2 | 5.2 | 5.2 | 4.6 4.4 | 4.5 | 4.5 | 6.8 8.3 | 7.6 | 7.4 |
| | | | | | Bottom | 5.6 | 27.9 28.0 | 27.9 | 8.0 8.0 | 8.0 | 27.8 27.5 | 27.7 | 76.2 75.8 | 76.0 | 5.1 5.2 | 5.1 | 5.1 | 4.8 4.7 | 4.8 | | 7.5 8.5 | 8.0 | |

Remarks

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

[^] As Tropical Cyclone Warning Signal No.3 or above was hoisted, water quality monitoring (except the monitoring locations named CSA, CS6, SR10B(N) and SR10A during Mid-Ebb Tide) was stopped according to the Contingency Plan for Impact Monitoring.

^{*} DA: Depth-Averaged

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at CS(Mf)3 - Mid-FloodTide

| Date | Weather | Sea | Sampling | Water | Samp | ling | Tempera | ature (°C) | F | Н | Salini | ty (ppt) | DO Satu | ration (%) | Dissolv | ed Oxygen | (mg/L) | Т | Turbidity(NT | J) | Susper | nded Solids | (mg/L) |
|-------------|-----------|-------------|----------|-----------|----------|------|--------------|------------|------------|---------|--------------|----------|---------------|------------|------------|-----------|--------|------------|--------------|-----|--------------|-------------|----------|
| | Condition | Condition** | Time | Depth (m) | Depth | (m) | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | DA* | Value | Average | DA* | Value | Average | DA* |
| 1-Aug-16^ | Cloudy | Moderate | - | | Surface | - | - | - | - | - | - | - | - | - | - | - | | - | - | | - | - | |
| | | | | - | Middle | - | - | - | - | - | - | - | | - | - | - | - | - | - | = | - | - | = |
| | | | | | Bottom | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | - | - | İ |
| 3-Aug-16 | Cloudy | Moderate | 06:29 | | Surface | 1.0 | 26.4 | 26.4 | 7.9 | 7.8 | 24.5 | 25.0 | 79.9 | 81.7 | 5.6 | 5.7 | | 8.1 | 8.1 | | 7.0 | 7.1 | |
| | | | | 7.1 | Middle | 3.6 | 26.3 26.1 | 26.1 | 7.8 7.9 | 7.8 | 25.4 25.5 | 25.6 | 83.4 78.9 | 79.1 | 5.8 5.5 | 5.5 | 5.6 | 8.0 8.1 | 8.1 | 8.1 | 7.1 7.4 | 7.0 | 7.8 |
| | | | | | Bottom | 6.1 | 26.1 26.1 | 26.0 | 7.7 7.8 | 7.7 | 25.8 26.7 | 27.0 | 79.3 78.4 | 78.8 | 5.6 5.5 | 5.5 | 5.5 | 8.0 8.2 | 8.2 | 0 | 6.6 8.5 | 9.2 | |
| 5-Aug-16 | Sunny | Moderate | 08:22 | 1 | | | 26.0 26.3 | | 7.6 7.9 | | 27.3 25.5 | | 79.1 74.6 | | 5.5 5.2 | | 5.5 | 8.1 8.9 | | | 9.8 5.9 | | |
| o nag io | Cumy | moderate | 00:22 | | Surface | 1.0 | 26.7 26.1 | 26.5 | 7.9 7.9 | 7.9 | 23.5 | 24.5 | 74.4 73.6 | 74.5 | 5.2 | 5.2 | 5.2 | 9.0 | 9.0 | | 6.3 5.2 | 6.1 | l |
| | | | | 6.8 | Middle | 3.4 | 26.4 26.3 | 26.3 | 7.9 7.9 | 7.9 | 25.0 25.5 | 25.6 | 73.5 73.1 | 73.6 | 5.2 5.1 | 5.2 | | 9.2 | 9.2 | 9.2 | 5.1 7.6 | 5.2 | 6.1 |
| | | | | | Bottom | 5.8 | 26.1 | 26.2 | 7.9 | 7.9 | 26.6 | 26.1 | 73.2 | 73.2 | 5.1 | 5.1 | 5.1 | 9.4 | 9.4 | | 6.4 | 7.0 | |
| 8-Aug-16 | Sunny | Moderate | 10:22 | | Surface | 1.0 | 28.9 28.7 | 28.8 | 8.0 8.0 | 8.0 | 19.9 18.6 | 19.2 | 82.8 85.6 | 84.2 | 5.8 5.9 | 5.9 | 5.8 | 2.6 2.5 | 2.6 | | 1.9 1.6 | 1.8 | |
| | | | | 6.8 | Middle | 3.4 | 28.4 28.7 | 28.5 | 8.0 8.0 | 8.0 | 20.4 18.9 | 19.6 | 81.7 82.9 | 82.3 | 5.7 5.8 | 5.7 | 0.0 | 2.8 2.7 | 2.8 | 2.8 | 0.8 1.9 | 1.4 | 2.2 |
| | | | | | Bottom | 5.8 | 28.0 28.1 | 28.0 | 7.9 8.0 | 7.9 | 23.1 22.5 | 22.8 | 79.7 80.3 | 80.0 | 5.5 5.6 | 5.5 | 5.5 | 2.9 3.0 | 3.0 | | 3.0 3.7 | 3.4 |] |
| 10-Aug-16 | Rainy | Moderate | 12:13 | | Surface | 1.0 | 28.1 28.0 | 28.1 | 8.0 8.0 | 8.0 | 18.6 21.1 | 19.9 | 84.9 84.8 | 84.9 | 6.0 6.0 | 6.0 | | 2.1 2.3 | 2.2 | | 2.2 | 2.3 | |
| | | | | 6.8 | Middle | 3.4 | 27.5 27.5 | 27.5 | 7.9 7.9 | 7.9 | 26.2 24.5 | 25.3 | 83.2 83.4 | 83.3 | 5.9 5.7 | 5.8 | 5.9 | 2.3 2.3 | 2.3 | 2.3 | 2.4 2.5 | 2.5 | 2.4 |
| | | | | | Bottom | 5.8 | 28.2 | 28.2 | 8.0 | 8.0 | 18.6 | 18.7 | 83.1 | 83.1 | 5.8 | 5.7 | 5.7 | 2.4 | 2.4 | | 2.3 | 2.3 | |
| 12-Aug-16 | Fine | Moderate | 14:20 | | Surface | 1.0 | 28.2 28.8 | 28.6 | 8.0 8.2 | 8.2 | 18.7 9.6 | 9.8 | 83.1 73.7 | 77.4 | 5.7 5.4 | 5.6 | | 2.4 | 2.4 | | 2.2 | 2.1 | |
| | | | | 7.2 | Middle | 3.6 | 28.4 25.8 | 26.7 | 8.2 7.9 | 7.9 | 10.0 21.2 | 19.8 | 81.1 73.2 | 76.4 | 5.9 5.2 | 5.4 | 5.5 | 2.4 | 2.4 | 2.4 | 2.1 | 2.7 | 2.6 |
| | | | | 7.2 | Bottom | 6.2 | 27.6 26.0 | 25.8 | 7.9 7.9 | 7.9 | 18.4 27.8 | 28.1 | 79.6 71.3 | 75.1 | 5.6 5.1 | 5.3 | 5.3 | 2.4 2.5 | 2.5 | 2.7 | 3.2 | 3.1 | 2.0 |
| 15-Aug-16 | Cloudy | Moderate | 18:18 | | | | 25.7 27.8 | | 7.8 8.2 | | 28.4 20.9 | | 78.8 104.6 | | 5.5 7.3 | | 5.3 | 2.5 | | | 2.4 3.8 | | <u> </u> |
| 10 / lug 10 | Cidady | moderate | 10.10 | | Surface | 1.0 | 27.7 27.2 | 27.8 | 8.2 8.1 | 8.2 | 21.0 | 20.9 | 103.9 | 104.3 | 7.3 7.2 | 7.3 | 7.3 | 2.2 | 2.3 | | 4.0 | 3.9 | l |
| | | | | 6.7 | Middle | 3.4 | 27.7 27.5 | 27.4 | 8.2 | 8.2 | 21.0 | 21.2 | 103.9 94.6 | 103.6 | 7.3 6.7 | 7.2 | | 2.7 | 2.7 | 2.6 | 4.8 | 4.4 | 4.9 |
| | | | | | Bottom | 5.7 | 27.5 | 27.5 | 8.1 8.1 | 8.1 | 25.6 | 23.8 | 96.8 | 95.7 | 6.8 | 6.7 | 6.7 | 2.8 | 2.9 | | 5.8 6.8 | 6.3 | |
| 17-Aug-16 | Rainy | Moderate | 18:46 | | Surface | 1.0 | 26.6 26.7 | 26.7 | 8.0 8.0 | 8.0 | 26.8 26.9 | 26.8 | 87.4 87.6 | 87.5 | 6.1 6.1 | 6.1 | 6.1 | 4.7 4.8 | 4.8 | | 4.4 3.4 | 3.9 | |
| | | | | 6.5 | Middle | 3.3 | 26.7 26.7 | 26.7 | 8.0 8.0 | 8.0 | 27.1 27.1 | 27.1 | 86.7 86.2 | 86.5 | 6.0 6.0 | 6.0 | 0.1 | 5.3 5.2 | 5.3 | 5.1 | 3.3 4.0 | 3.7 | 4.0 |
| | | | | | Bottom | 5.5 | 26.7 26.7 | 26.7 | 8.0 8.0 | 8.0 | 27.0 27.1 | 27.1 | 86.6 85.9 | 86.3 | 6.0 6.0 | 6.0 | 6.0 | 5.3 5.2 | 5.3 | | 4.8 3.9 | 4.4 | İ |
| 19-Aug-16 | Fine | Moderate | 07:25 | | Surface | 1.0 | 26.1 26.1 | 26.1 | 8.0 8.0 | 8.0 | 28.6 28.6 | 28.6 | 75.7 75.5 | 75.6 | 5.3 5.3 | 5.3 | | 9.2 9.1 | 9.2 | | 9.4 9.3 | 9.4 | |
| | | | | 6.6 | Middle | 3.3 | 26.0 | 26.0 | 8.0 | 8.0 | 28.8 | 28.8 | 75.1 | 74.9 | 5.3 | 5.3 | 5.3 | 9.3 | 9.4 | 9.4 | 9.8 | 10.4 | 11.2 |
| | | | | | Bottom | 5.6 | 26.0 26.0 | 26.0 | 8.0 8.0 | 8.0 | 28.8 29.0 | 29.0 | 74.6 74.2 | 74.0 | 5.2 5.2 | 5.2 | 5.2 | 9.4 9.5 | 9.6 | | 10.9 12.6 | 13.9 | İ |
| | | | 1 | | Dottoill | 0.0 | 26.0 | 20.0 | 8.0 | 0.0 | 29.0 | 20.0 | 73.8 | 7 4.0 | 5.2 | 0.2 | 0.2 | 9.7 | 0.0 | | 15.2 | 10.0 | <u> </u> |

Remarks:

* DA: Depth-Averaged

** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at CS(Mf)3 - Mid-FloodTide

| Date | Weather | Sea | Sampling | Water | Samp | ling | Temper | ature (°C) | I | ρΗ | Salini | ty (ppt) | DO Satu | ration (%) | Dissol | ved Oxygen | (mg/L) | 1 | urbidity(NT | U) | Suspe | nded Solids | s (mg/L) |
|-----------|-----------|-------------|----------|-----------|---------|------|--------------|------------|------------|---------|--------------|----------|--------------|------------|------------|------------|--------|------------|-------------|-----|------------|-------------|----------|
| | Condition | Condition** | Time | Depth (m) | Depth | (m) | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | DA* | Value | Average | DA* | Value | Average | DA* |
| 22-Aug-16 | Sunny | Moderate | 09:54 | | Surface | 1.0 | 27.8 27.8 | 27.8 | 7.9 7.9 | 7.9 | 23.2 23.4 | 23.3 | 76.7 77.0 | 76.9 | 5.4 5.4 | 5.4 | 5.4 | 6.7 6.8 | 6.8 | | 5.2 5.4 | 5.3 | |
| | | | | 6.6 | Middle | 3.3 | 27.7 27.6 | 27.6 | 7.9 7.9 | 7.9 | 23.3 24.4 | 23.9 | 76.2 76.3 | 76.3 | 5.3 5.3 | 5.3 | 0.4 | 6.9 7.1 | 7.0 | 7.0 | 4.6 5.8 | 5.2 | 5.2 |
| | | | | | Bottom | 5.6 | 27.7 27.6 | 27.6 | 7.9 7.9 | 7.9 | 24.4 24.6 | 24.5 | 75.5 75.6 | 75.6 | 5.3 5.3 | 5.3 | 5.3 | 7.2 7.3 | 7.3 | | 4.9 5.4 | 5.2 | |
| 24-Aug-16 | Sunny | Moderate | 11:32 | | Surface | 1.0 | 28.9 28.5 | 28.7 | 8.0 8.0 | 8.0 | 20.3 20.6 | 20.5 | 77.4 79.2 | 78.3 | 5.3 5.5 | 5.4 | 5.4 | 4.3 4.4 | 4.4 | | 1.7 2.1 | 1.9 | |
| | | | | 7.1 | Middle | 3.6 | 27.9 28.1 | 28.0 | 8.0 8.0 | 8.0 | 24.8 24.5 | 24.7 | 78.5 76.4 | 77.5 | 5.3 5.2 | 5.3 | 5.4 | 4.5 4.4 | 4.5 | 4.5 | 2.5 2.8 | 2.7 | 2.5 |
| | | | | | Bottom | 6.1 | 27.9 27.9 | 27.9 | 7.9 7.9 | 7.9 | 25.7 25.8 | 25.8 | 76.1 77.6 | 76.9 | 5.2 5.3 | 5.2 | 5.2 | 4.6 4.5 | 4.6 | | 2.6 3.1 | 2.9 | |
| 26-Aug-16 | Sunny | Moderate | 13:21 | | Surface | 1.0 | 29.8 29.8 | 29.8 | 8.0 8.0 | 8.0 | 11.5 11.8 | 11.7 | 77.8 78.5 | 78.2 | 5.5 5.5 | 5.5 | 5.5 | 4.2 4.2 | 4.2 | | 5.5 6.6 | 6.1 | |
| | | | | 6.5 | Middle | 3.3 | 29.4 29.6 | 29.5 | 7.9 7.9 | 7.9 | 13.4 12.2 | 12.8 | 76.5 76.8 | 76.7 | 5.5 5.5 | 5.5 | 5.5 | 4.4 4.4 | 4.4 | 4.4 | 5.9 6.2 | 6.1 | 5.8 |
| | | | | | Bottom | 5.5 | 29.3 29.4 | 29.3 | 7.8 7.8 | 7.8 | 18.8 16.0 | 17.4 | 77.7 75.2 | 76.5 | 5.4 5.3 | 5.3 | 5.3 | 4.6 4.6 | 4.6 | | 5.0 5.2 | 5.1 | |
| 29-Aug-16 | Sunny | Moderate | 17:08 | | Surface | 1.0 | 27.9 27.9 | 27.9 | 8.2 8.2 | 8.2 | 24.7 25.4 | 25.0 | 84.8 81.8 | 83.3 | 5.8 5.6 | 5.7 | 5.6 | 4.1 4.0 | 4.1 | | 6.0 7.1 | 6.6 | |
| | | | | 7.2 | Middle | 3.6 | 27.9 27.7 | 27.8 | 8.2 8.2 | 8.2 | 25.9 25.3 | 25.6 | 78.6 84.8 | 81.7 | 5.3 5.7 | 5.5 | 5.6 | 4.0 4.1 | 4.1 | 4.1 | 5.9 5.4 | 5.7 | 6.7 |
| | | | | | Bottom | 6.2 | 27.6 27.9 | 27.8 | 8.2 8.2 | 8.2 | 27.5 26.5 | 27.0 | 75.4 82.9 | 79.2 | 5.1 5.7 | 5.4 | 5.4 | 4.1 4.1 | 4.1 | | 7.9 7.4 | 7.7 | |
| 31-Aug-16 | Sunny | Moderate | 19:17 | | Surface | 1.0 | 28.6 28.6 | 28.6 | 8.0 8.0 | 8.0 | 24.4 24.6 | 24.5 | 78.7 78.6 | 78.7 | 5.3 5.3 | 5.3 | 5.3 | 5.2 5.3 | 5.3 | | 7.6 6.9 | 7.3 | |
| | | | | 6.8 | Middle | 3.4 | 28.6 28.6 | 28.6 | 8.0 8.0 | 8.0 | 24.9 25.0 | 24.9 | 78.3 78.1 | 78.2 | 5.2 5.2 | 5.2 | 5.5 | 5.6 5.4 | 5.5 | 5.5 | 6.6 8.1 | 7.4 | 7.5 |
| | | | | | Bottom | 5.8 | 28.6 28.6 | 28.6 | 8.0 8.0 | 8.0 | 25.2 25.4 | 25.3 | 77.6 77.4 | 77.5 | 5.2 5.2 | 5.2 | 5.2 | 5.8 5.7 | 5.8 | | 7.8 7.5 | 7.7 | |

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

[^] As Tropical Cyclone Warning Signal No.3 or above was hoisted, water quality monitoring (except the monitoring locations named CSA, CS6, SR10B(N) and SR10A during Mid-Ebb Tide) was stopped according to the Contingency Plan for Impact Monitoring.

^{*} DA: Depth-Averaged

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at CS4 - Mid-EbbTide

| Date | Weather | Sea | Sampling | Water | Samp | ling | Temper | ature (°C) | | Н | Salini | ty (ppt) | DO Satu | ration (%) | Dissol | ved Oxygen | (mg/L) | Т | urbidity(NT | J) | Suspe | nded Solids | s (mg/L) |
|------------|-----------|-------------|----------|-----------|---------|------|--------------|------------|-------------------|---------|--------------|----------|----------------------|------------|------------|------------|--------|------------|-------------|-----|--------------|-------------|----------|
| | Condition | Condition** | Time | Depth (m) | Depth | (m) | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | DA* | Value | Average | DA* | Value | Average | DA* |
| 1-Aug-16^ | Cloudy | Moderate | - | | Surface | - | - | - | - | - | - | - | - | - | - | - | | - | - | | - | - | |
| | | | | - | Middle | - | - | - | - | - | - | - | - | - | - | - | - | - | - | = | - | - | = |
| | | | | | Bottom | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | - | - | |
| 3-Aug-16 | Cloudy | Moderate | 12:20 | | Surface | 1.0 | 26.0 26.0 | 26.0 | 7.9 7.9 | 7.9 | 26.7 26.8 | 26.7 | 80.1 78.9 | 79.5 | 5.6 5.5 | 5.5 | | 7.4 7.5 | 7.5 | | 9.4 9.2 | 9.3 | |
| | | | | 18.1 | Middle | 9.1 | 25.7 | 25.7 | 7.9 7.9 7.9 | 7.9 | 27.2 | 27.5 | 79.5 | 79.0 | 5.5 | 5.5 | 5.5 | 7.6 7.7 | 7.7 | 7.7 | 12.4 | 12.2 | 11.3 |
| | | | | | Bottom | 17.1 | 25.6 25.6 | 25.6 | 7.9 | 7.9 | 27.8 28.1 | 28.2 | 78.5 78.3 | 78.7 | 5.5 5.5 | 5.5 | 5.5 | 7.8 | 7.8 | | 12.0 | 12.3 | |
| 5-Aug-16 | Sunny | Moderate | 13:43 | | Surface | 1.0 | 25.6 28.0 | 27.9 | 7.9 8.0 | 8.0 | 28.2 22.1 | 22.4 | 79.0 76.9 | 76.7 | 5.5 5.3 | 5.3 | | 7.8 4.8 | 4.9 | | 13.5 3.7 | 4.3 | |
| | | | | 16.2 | Middle | 8.1 | 27.8 27.6 | 27.4 | 8.0 8.0 | 8.0 | 22.8 23.3 | 23.4 | 76.4 75.6 | 75.5 | 5.3 5.2 | 5.2 | 5.3 | 4.9 5.2 | 5.2 | 5.3 | 3.3 | 3.9 | 4.6 |
| | | | | | Bottom | 15.2 | 27.1 27.4 | 27.0 | 8.0 8.0 | 8.0 | 23.6 23.9 | 25.0 | 75.3 74.6 | 74.4 | 5.3 5.2 | 5.2 | 5.2 | 5.1 5.7 | 5.7 | | 6.2 | 5.5 | |
| 8-Aug-16 | Sunny | Moderate | 15:20 | | Surface | 1.0 | 26.6 29.5 | 29.6 | 8.0 8.0 | 8.0 | 26.1 19.0 | 18.8 | 74.1 83.8 | 83.8 | 5.2 5.8 | 5.8 | | 5.6 3.2 | 3.3 | | 4.8 | 4.9 | |
| | | | | 15.8 | Middle | 7.9 | 29.7 28.1 | 29.0 | 8.0 8.0 | 8.0 | 18.5 21.8 | 20.3 | 83.8 81.3 | 81.1 | 5.7 5.6 | 5.6 | 5.7 | 3.4 | 3.5 | 3.6 | 4.8 5.8 | 5.3 | 5.2 |
| | | | | 10.0 | Bottom | 14.8 | 29.9 27.7 | 27.8 | 8.0 8.0 | 8.0 | 18.9 22.6 | 22.4 | 80.9 79.5 | 79.3 | 5.6 5.5 | 5.5 | 5.5 | 3.3 | 3.9 | 0.0 | 4.8 5.4 | 5.5 | 0.2 |
| 10-Aug-16 | Rainy | Moderate | 16:44 | | | 1.0 | 27.8 27.6 | 27.7 | 8.0 8.0 | 8.0 | 22.3 22.7 | 21.5 | 79.1 83.6 | 83.5 | 5.5 5.9 | 5.9 | 5.5 | 3.9 1.8 | | | 5.5 3.0 | | |
| , | • | | | 45.0 | Surface | | 27.8 27.2 | 27.2 | 8.0 8.0 | | 20.3 24.5 | | 83.3 82.6 | 83.0 | 5.8 5.7 | | 5.8 | 1.8 2.0 | 1.8 | 0.0 | 3.2 2.9 | 3.1 | |
| | | | | 15.8 | Middle | 7.9 | 27.2 27.5 | | 8.0 8.0 | 8.0 | 24.7 25.4 | 24.6 | 83.3 78.9 | | 5.7 5.5 | 5.7 | | 1.9 2.0 | 2.0 | 2.0 | 2.4 | 2.7 | 3.0 |
| 12-Aug-16 | Rainy | Moderate | 08:36 | | Bottom | 14.8 | 27.1 | 27.3 | 7.9 8.1 | 8.0 | 25.5 15.1 | 25.5 | 79.1 85.2 | 79.0 | 5.5 6.0 | 5.5 | 5.5 | 2.1 | 2.1 | | 3.2 | 3.1 | |
| 12 /lug 10 | reality | Woderate | 00.00 | | Surface | 1.0 | 27.7 | 27.7 | 8.0 7.9 | 8.1 | 15.6 22.6 | 15.3 | 78.2 77.9 | 81.7 | 5.6 5.4 | 5.8 | 5.7 | 1.0 | 1.1 | | 3.5 | 3.5 | |
| | | | | 18.0 | Middle | 9.0 | 26.5 26.8 | 26.6 | 7.9 7.9 | 7.9 | 23.1 | 22.8 | 82.3 76.1 | 80.1 | 5.8 5.4 | 5.6 | | 1.2 | 1.2 | 1.2 | 3.2 | 3.5 | 3.6 |
| 45.0 40 | Ol I | Malassa | 44.40 | | Bottom | 17.0 | 26.2 | 26.5 | 7.8 | 7.9 | 26.4 | 25.6 | 73.6 | 74.9 | 5.3 | 5.4 | 5.4 | 1.3 | 1.3 | | 4.7 | 3.7 | |
| 15-Aug-16 | Cloudy | Moderate | 11:16 | | Surface | 1.0 | 26.8 27.2 | 27.0 | 8.0 8.0 | 8.0 | 23.2 22.7 | 23.0 | 73.4 73.3 | 73.4 | 5.2 5.2 | 5.2 | 5.2 | 3.1 | 3.1 | | 5.2 5.1 | 5.2 | |
| | | | | 15.8 | Middle | 7.9 | 27.1 26.2 | 26.7 | 8.0 8.0 | 8.0 | 23.6 26.3 | 25.0 | 72.3 72.4 71.6 | 72.4 | 5.2 5.2 | 5.2 | | 3.4 | 3.3 | 3.3 | 5.6 5.4 | 5.5 | 5.6 |
| | | | | | Bottom | 14.8 | 25.8 25.8 | 25.8 | 7.9 7.9 | 7.9 | 28.7 28.7 | 28.7 | 71.5 | 71.6 | 5.1 5.1 | 5.1 | 5.1 | 3.5 3.3 | 3.4 | | 5.6 6.6 | 6.1 | |
| 17-Aug-16 | Rainy | Moderate | 13:00 | | Surface | 1.0 | 26.2 26.1 | 26.2 | 8.0 8.0 | 8.0 | 26.9 27.2 | 27.1 | 79.3 81.5 | 80.4 | 5.5 5.6 | 5.6 | 5.6 | 3.9 4.0 | 4.0 | | 3.1 3.3 | 3.2 | |
| | | | | 16.2 | Middle | 8.1 | 25.8 25.7 | 25.8 | 8.0 8.0 | 8.0 | 28.6 29.0 | 28.8 | 79.1 79.0 | 79.1 | 5.5 5.5 | 5.5 | | 5.3 5.5 | 5.4 | 4.9 | 4.4 3.5 | 4.0 | 3.8 |
| | | | | | Bottom | 15.2 | 26.0 25.9 | 25.9 | 8.0 7.9 | 8.0 | 29.6 29.7 | 29.6 | 77.7 77.8 | 77.8 | 5.4 5.4 | 5.4 | 5.4 | 5.2 5.2 | 5.2 | | 3.8 4.8 | 4.3 | |
| 19-Aug-16 | Fine | Moderate | 12:37 | | Surface | 1.0 | 26.5 26.6 | 26.5 | 8.1 8.0 | 8.1 | 28.4 28.3 | 28.4 | 78.5 78.8 | 78.7 | 5.4 5.4 | 5.4 | 5.3 | 7.3 7.2 | 7.3 | | 10.2 9.1 | 9.7 | |
| | | | | 15.7 | Middle | 7.9 | 26.3 26.3 | 26.3 | 8.1 8.1 | 8.1 | 28.5 28.6 | 28.5 | 76.1 76.2 | 76.2 | 5.2 5.2 | 5.2 | J.J | 7.6 7.5 | 7.6 | 7.6 | 10.6 10.8 | 10.7 | 10.5 |
| | | | | | Bottom | 14.7 | 26.2 26.4 | 26.3 | 8.1 8.1 | 8.1 | 28.8 28.6 | 28.7 | 74.5 75.5 | 75.0 | 5.2 5.2 | 5.2 | 5.2 | 7.8 7.8 | 7.8 | | 11.3 10.6 | 11.0 | |

Remarks:

* DA: Depth-Averaged

** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at CS4 - Mid-EbbTide

| Date | Weather | Sea | Sampling | Water | Samp | ling | Tempera | ature (°C) | | ρΗ | Salini | ty (ppt) | DO Satu | ration (%) | Dissol | ved Oxygen | (mg/L) | Т | urbidity(NT | J) | Suspe | nded Solids | (mg/L) |
|-----------|-----------|-------------|----------|-----------|---------|------|--------------|------------|------------|---------|--------------|----------|--------------|------------|------------|------------|--------|------------|-------------|-----|------------|-------------|--------|
| | Condition | Condition** | Time | Depth (m) | Depth | (m) | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | DA* | Value | Average | DA* | Value | Average | DA* |
| 22-Aug-16 | Sunny | Moderate | 14:39 | | Surface | 1.0 | 28.5 28.2 | 28.3 | 8.0 8.0 | 8.0 | 22.4 23.0 | 22.7 | 78.1 77.6 | 77.9 | 5.5 5.4 | 5.4 | 5.4 | 8.1 8.2 | 8.2 | | 4.2 4.2 | 4.2 | |
| | | | | 16.0 | Middle | 8.0 | 27.9 27.7 | 27.8 | 8.0 8.0 | 8.0 | 24.2 24.9 | 24.6 | 76.9 77.3 | 77.1 | 5.4 5.4 | 5.4 | 5.4 | 8.3 8.3 | 8.3 | 8.4 | 5.1 5.6 | 5.4 | 5.7 |
| | | | | | Bottom | 15.0 | 28.2 27.7 | 28.0 | 8.0 8.0 | 8.0 | 24.2 25.1 | 24.6 | 76.2 76.5 | 76.4 | 5.3 5.3 | 5.3 | 5.3 | 8.5 8.6 | 8.6 | | 6.5 8.3 | 7.4 | |
| 24-Aug-16 | Sunny | Moderate | 16:08 | | Surface | 1.0 | 29.7 29.7 | 29.7 | 8.1 8.1 | 8.1 | 18.3 18.4 | 18.3 | 89.1 89.7 | 89.4 | 6.1 6.2 | 6.1 | 5.9 | 3.4 3.3 | 3.4 | | 2.3 2.2 | 2.3 | |
| | | | | 18.2 | Middle | 9.1 | 28.5 28.3 | 28.4 | 8.0 8.0 | 8.0 | 22.3 22.7 | 22.5 | 78.3 85.1 | 81.7 | 5.3 5.8 | 5.6 | 0.0 | 3.6 3.4 | 3.5 | 3.5 | 2.1 2.0 | 2.1 | 2.2 |
| | | | | | Bottom | 17.2 | 28.3 28.2 | 28.3 | 8.0 8.0 | 8.0 | 24.5 24.5 | 24.5 | 83.4 76.3 | 79.9 | 5.7 5.2 | 5.5 | 5.5 | 3.6 3.7 | 3.7 | | 1.9 2.2 | 2.1 | |
| 26-Aug-16 | Sunny | Moderate | 07:46 | | Surface | 1.0 | 29.5 29.6 | 29.6 | 7.9 7.9 | 7.9 | 13.7 13.3 | 13.5 | 77.2 76.4 | 76.8 | 5.4 5.4 | 5.4 | 5.4 | 3.6 3.6 | 3.6 | | 4.3 4.8 | 4.6 | |
| | | | | 15.8 | Middle | 7.9 | 29.3 29.4 | 29.3 | 7.9 7.9 | 7.9 | 16.5 14.9 | 15.7 | 76.9 75.3 | 76.1 | 5.4 5.2 | 5.3 | 3.4 | 3.7 3.8 | 3.8 | 3.8 | 5.4 4.7 | 5.1 | 4.8 |
| | | | | | Bottom | 14.8 | 29.3 29.3 | 29.3 | 7.8 7.9 | 7.8 | 17.2 17.5 | 17.3 | 74.7 74.8 | 74.8 | 5.2 5.3 | 5.3 | 5.3 | 4.0 3.9 | 4.0 | | 4.6 4.5 | 4.6 | |
| 29-Aug-16 | Sunny | Moderate | 11:37 | | Surface | 1.0 | 27.6 27.7 | 27.7 | 8.2 8.2 | 8.2 | 24.4 24.6 | 24.5 | 81.8 80.4 | 81.1 | 5.6 5.7 | 5.7 | 5.7 | 3.7 3.7 | 3.7 | | 7.8 6.9 | 7.4 | |
| | | | | 18.2 | Middle | 9.1 | 27.6 27.5 | 27.5 | 8.2 8.2 | 8.2 | 25.0 25.5 | 25.3 | 79.0 81.3 | 80.2 | 5.6 5.5 | 5.6 | 3.7 | 3.8 3.9 | 3.9 | 3.8 | 8.2 7.5 | 7.9 | 7.8 |
| | | | | | Bottom | 17.2 | 27.6 27.5 | 27.5 | 8.2 8.2 | 8.2 | 26.1 26.3 | 26.2 | 78.7 77.5 | 78.1 | 5.6 5.3 | 5.4 | 5.4 | 3.8 4.0 | 3.9 | | 8.0 8.4 | 8.2 | |
| 31-Aug-16 | Sunny | Moderate | 12:43 | | Surface | 1.0 | 28.3 28.3 | 28.3 | 8.0 8.0 | 8.0 | 26.6 26.6 | 26.6 | 75.9 76.1 | 76.0 | 5.2 5.2 | 5.2 | 5.2 | 4.5 4.3 | 4.4 | | 6.4 5.7 | 6.1 | |
| | | | | 15.8 | Middle | 7.9 | 28.2 28.1 | 28.1 | 8.0 8.0 | 8.0 | 26.8 27.0 | 26.9 | 75.2 75.5 | 75.4 | 5.1 5.1 | 5.1 | 5.2 | 4.7 4.7 | 4.7 | 4.7 | 7.0 8.3 | 7.7 | 7.1 |
| | | | | | Bottom | 14.8 | 28.1 28.0 | 28.1 | 8.0 8.0 | 8.0 | 27.1 27.4 | 27.3 | 74.8 74.4 | 74.6 | 5.1 5.1 | 5.1 | 5.1 | 4.8 4.9 | 4.9 | | 6.7 8.0 | 7.4 | |

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

[^] As Tropical Cyclone Warning Signal No.3 or above was hoisted, water quality monitoring (except the monitoring locations named CSA, CS6, SR10B(N) and SR10A during Mid-Ebb Tide) was stopped according to the Contingency Plan for Impact Monitoring.

^{*} DA: Depth-Averaged

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at CS4 - Mid-FloodTide

| Date | Weather | Sea | Sampling | Water | Samp | ling | Tempera | ature (°C) | ŗ | Н | Salini | ity (ppt) | DO Satu | ration (%) | Dissol | ved Oxygen | (mg/L) | Т | urbidity(NT | U) | Suspe | ended Solids | (mg/L) |
|------------|-----------|-------------|----------|-----------|---------|------|--------------|------------|------------|---------|--------------|-----------|--------------|------------|------------|------------|-------------|------------|-------------|----------|--------------|--------------|----------|
| | Condition | Condition** | Time | Depth (m) | Depth | (m) | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | DA* | Value | Average | DA* | Value | Average | DA* |
| 1-Aug-16^ | Cloudy | Moderate | - | | Surface | - | - | - | - | - | - | - | - | - | - | - | | - | - | | - | - | |
| | | | | - | Middle | - | - | - | - | - | - | - | - | - | - | - | - | - | - | <u>-</u> | - | - | <u>.</u> |
| | | | | | Bottom | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | - | - | |
| 3-Aug-16 | Cloudy | Moderate | 06:46 | | Surface | 1.0 | 26.4 | 26.3 | 8.0 | 7.9 | 22.6 | 22.9 | 80.0 | 80.0 | 5.7 | 5.6 | | 7.8 | 7.8 | | 7.5 | 7.7 | |
| | | | | 18.1 | Middle | 9.1 | 26.3 26.1 | 26.1 | 7.9 7.9 | 7.9 | 23.2 | 24.3 | 79.9 78.4 | 78.8 | 5.6 5.6 | 5.6 | 5.6 | 7.8 8.0 | 8.0 | 8.0 | 7.9 6.2 | 6.6 | 7.6 |
| | | | | | Bottom | 17.1 | 26.1 26.0 | 26.1 | 7.9 | 7.9 | 24.4 25.9 | 25.2 | 79.1 78.0 | 78.4 | 5.6 5.5 | 5.5 | 5.5 | 7.9 8.2 | 8.1 | | 6.9 8.3 | 8.6 | |
| 5-Aug-16 | Sunny | Moderate | 08:42 | | Surface | 1.0 | 26.2 26.6 | 26.6 | 7.9 7.9 | 7.9 | 24.6 24.0 | 24.1 | 78.7 74.8 | 74.7 | 5.6 5.2 | 5.2 | | 8.0 9.4 | 9.4 | | 8.8 7.9 | 7.6 | |
| | | | | 16.4 | Middle | 8.2 | 26.7 26.3 | 26.4 | 7.9 7.9 | 7.9 | 24.1 25.6 | 25.1 | 74.6 74.3 | 74.2 | 5.2 5.2 | 5.2 | 5.2 | 9.3 9.6 | 9.6 | 9.6 | 7.2 9.3 | 9.0 | 8.3 |
| | | | | | Bottom | 15.4 | 26.5 26.1 | 26.2 | 7.9 7.9 | 7.9 | 24.6 26.0 | 25.8 | 74.1 73.4 | 73.5 | 5.2 5.1 | 5.1 | 5.1 | 9.5 9.8 | 9.8 | 0.0 | 8.6 7.3 | 8.3 | 0.0 |
| 8-Aug-16 | Sunny | Moderate | 10:44 | | Surface | 1.0 | 26.4 28.9 | 29.0 | 7.9 8.0 | 8.0 | 25.6 19.3 | 19.3 | 73.6 84.8 | 84.6 | 5.1 5.9 | 6.0 | 0.1 | 9.8 2.7 | 2.7 | | 9.2 2.8 | 3.7 | |
| | | | | 15.9 | Middle | 8.0 | 29.0 28.5 | 28.6 | 8.0 8.0 | 8.0 | 19.3 19.4 | 19.3 | 84.3 84.3 | 84.2 | 6.0 5.8 | 5.9 | 6.0 | 2.6 | 2.7 | 2.8 | 4.5 | 4.4 | 3.8 |
| | | | | 10.5 | Bottom | 14.9 | 28.7 28.2 | 28.3 | 8.0 8.0 | 7.9 | 19.2 22.5 | 22.5 | 84.1 80.6 | 80.8 | 5.9 5.7 | 5.7 | 5.7 | 2.7 2.9 | 2.9 | 2.0 | 4.8 3.2 | 3.4 | 3.0 |
| 10-Aug-16 | Rainy | Moderate | 12:35 | | | | 28.4 28.3 | | 7.9 8.0 | | 22.4 18.6 | | 81.0 80.5 | | 5.7 5.7 | | 5.7 | 2.9 | | | 3.6 1.0 | | |
| | · | | | 45.0 | Surface | 1.0 | 28.1 28.0 | 28.2 | 8.0 8.0 | 8.0 | 18.2 18.6 | 18.4 | 80.6 78.3 | 80.6 | 5.7 5.5 | 5.7 | 5.6 | 2.7 | 2.7 | 2.0 | 1.1 | 1.1 | 4.0 |
| | | | | 15.8 | Middle | 7.9 | 27.9 26.3 | 27.9 | 7.9 7.9 | 8.0 | 22.3 28.8 | 20.5 | 79.5 78.5 | 78.9 | 5.5 5.4 | 5.5 | | 2.8 | 2.8 | 2.8 | 1.0 | 1.1 | 1.2 |
| 12-Aug-16 | Fine | Moderate | 14:13 | | Bottom | 14.8 | 26.4 28.6 | 26.4 | 7.8 | 7.8 | 28.5 | 28.7 | 76.4 81.4 | 77.5 | 5.3 5.7 | 5.3 | 5.3 | 2.9 | 2.9 | | 1.6 | 1.5 | |
| 12 /lug 10 | 1 1110 | Woderate | 14.10 | | Surface | 1.0 | 28.4 27.2 | 28.5 | 8.1 7.9 | 8.1 | 10.6 21.6 | 10.7 | 75.0 78.8 | 78.2 | 5.2 5.5 | 5.5 | 5.4 | 2.3 | 2.3 | | 3.0 | 2.9 | |
| | | | | 18.0 | Middle | 9.0 | 25.7 25.7 | 26.5 | 7.8 7.7 | 7.8 | 21.9 | 21.8 | 70.3 69.8 | 74.6 | 5.1 5.1 | 5.3 | | 2.4 | 2.3 | 2.4 | 3.0 | 2.6 | 2.6 |
| 45.0 40 | Ol. I | Malassa | 47.50 | | Bottom | 17.0 | 25.6 27.8 | 25.7 | 7.8 | 7.7 | 29.7 | 29.4 | 70.6 99.3 | 70.2 | 5.2 | 5.1 | 5.1 | 2.4 | 2.5 | | 2.1 | 2.4 | |
| 15-Aug-16 | Cloudy | Moderate | 17:58 | | Surface | 1.0 | 27.8 | 27.8 | 8.2 8.2 | 8.2 | 20.9 | 20.9 | 99.5 | 99.4 | 6.9 6.9 | 6.9 | 6.9 | 3.1 | 3.2 | | 7.1 | 7.1 | |
| | | | | 15.8 | Middle | 7.9 | 27.4 27.6 | 27.5 | 8.1 8.2 | 8.1 | 21.6 21.0 | 21.3 | 97.5 98.9 | 98.2 | 6.8 | 6.8 | | 3.4 3.3 | 3.4 | 3.4 | 6.6 7.5 | 7.1 | 7.2 |
| | | | | | Bottom | 14.8 | 27.2 27.5 | 27.4 | 8.1 8.1 | 8.1 | 24.6 23.8 | 24.2 | 96.6 96.4 | 96.5 | 6.8 6.7 | 6.7 | 6.7 | 3.6 3.5 | 3.6 | | 7.1 7.7 | 7.4 | |
| 17-Aug-16 | Rainy | Moderate | 18:26 | | Surface | 1.0 | 26.6 26.7 | 26.6 | 8.0 8.0 | 8.0 | 26.6 26.7 | 26.7 | 85.7 86.5 | 86.1 | 6.0 | 6.0 | 6.0 | 7.7 | 7.6 | | 4.0 3.1 | 3.6 | |
| | | | | 16.7 | Middle | 8.4 | 26.7 26.7 | 26.7 | 8.0 8.0 | 8.0 | 27.1 27.1 | 27.1 | 85.8 85.7 | 85.8 | 6.0 5.9 | 6.0 | | 7.9 7.7 | 7.8 | 7.7 | 3.7 3.6 | 3.7 | 3.9 |
| | | | | | Bottom | 15.7 | 26.6 26.7 | 26.7 | 8.0 8.0 | 8.0 | 27.0 27.1 | 27.0 | 85.2 84.8 | 85.0 | 5.9 5.9 | 5.9 | 5.9 | 7.8 7.8 | 7.8 | | 4.1 4.9 | 4.5 | |
| 19-Aug-16 | Fine | Moderate | 07:46 | | Surface | 1.0 | 26.1 26.1 | 26.1 | 8.0 8.0 | 8.0 | 28.6 28.7 | 28.6 | 77.3 77.1 | 77.2 | 5.4 5.4 | 5.4 | 5.4 | 8.5 8.5 | 8.5 | | 7.6 7.4 | 7.5 | |
| | | | | 15.8 | Middle | 7.9 | 26.0 26.0 | 26.0 | 8.0 8.0 | 8.0 | 28.9 28.8 | 28.8 | 76.7 76.6 | 76.7 | 5.4 5.4 | 5.4 | 0. ¬ | 8.7 8.6 | 8.7 | 8.7 | 11.8 11.6 | 11.7 | 10.4 |
| | | | | | Bottom | 14.8 | 26.0 26.0 | 26.0 | 7.9 8.0 | 7.9 | 29.0 29.0 | 29.0 | 75.2 75.6 | 75.4 | 5.3 5.3 | 5.3 | 5.3 | 8.9 8.9 | 8.9 | | 12.0 12.0 | 12.0 | |

Remarks:

* DA: Depth-Averaged

** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at CS4 - Mid-FloodTide

| Date | Weather | Sea | Sampling | Water | Samp | ling | Tempera | ature (°C) | | ρΗ | Salini | ty (ppt) | DO Satu | ration (%) | Dissol | ved Oxygen | (mg/L) | 1 | urbidity(NTl | J) | Suspe | nded Solids | s (mg/L) |
|-----------|-----------|-------------|----------|-----------|---------|------|--------------|------------|------------|---------|--------------|----------|--------------|------------|------------|------------|--------|------------|--------------|-----|------------|-------------|----------|
| | Condition | Condition** | Time | Depth (m) | Depth | (m) | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | DA* | Value | Average | DA* | Value | Average | DA* |
| 22-Aug-16 | Sunny | Moderate | 10:13 | | Surface | 1.0 | 27.8 27.8 | 27.8 | 7.9 7.9 | 7.9 | 23.1 23.2 | 23.2 | 78.6 78.4 | 78.5 | 5.5 5.5 | 5.5 | 5.5 | 5.4 5.4 | 5.4 | | 4.9 3.5 | 4.2 | |
| | | | | 16.1 | Middle | 8.1 | 27.7 27.7 | 27.7 | 7.9 7.9 | 7.9 | 23.3 23.4 | 23.4 | 78.1 78.0 | 78.1 | 5.5 5.4 | 5.4 | 0.0 | 5.6 5.6 | 5.6 | 5.6 | 5.4 5.1 | 5.3 | 4.8 |
| | | | | | Bottom | 15.1 | 27.6 27.8 | 27.7 | 7.8 7.9 | 7.9 | 24.5 24.4 | 24.4 | 77.6 77.3 | 77.5 | 5.4 5.4 | 5.4 | 5.4 | 5.9 5.8 | 5.9 | | 4.6 5.2 | 4.9 | |
| 24-Aug-16 | Sunny | Moderate | 11:41 | | Surface | 1.0 | 29.4 29.1 | 29.2 | 8.1 8.1 | 8.1 | 19.2 19.8 | 19.5 | 80.3 79.8 | 80.1 | 5.5 5.5 | 5.5 | 5.4 | 4.4 4.3 | 4.4 | | 3.7 3.1 | 3.4 | |
| | | | | 18.1 | Middle | 9.1 | 28.3 28.1 | 28.2 | 8.0 8.0 | 8.0 | 23.8 24.7 | 24.2 | 75.3 75.9 | 75.6 | 5.1 5.2 | 5.2 | 3.4 | 4.5 4.6 | 4.6 | 4.5 | 3.2 3.1 | 3.2 | 3.3 |
| | | | | | Bottom | 17.1 | 27.9 27.9 | 27.9 | 8.0 8.0 | 8.0 | 25.4 25.8 | 25.6 | 74.2 74.6 | 74.4 | 5.1 5.1 | 5.1 | 5.1 | 4.5 4.7 | 4.6 | | 3.1 3.4 | 3.3 | |
| 26-Aug-16 | Sunny | Moderate | 13:10 | | Surface | 1.0 | 29.9 29.9 | 29.9 | 8.0 8.0 | 8.0 | 11.7 11.6 | 11.6 | 82.0 82.1 | 82.1 | 5.8 5.8 | 5.8 | 5.8 | 4.5 4.3 | 4.4 | | 6.3 6.1 | 6.2 | |
| | | | | 16.0 | Middle | 8.0 | 29.8 29.5 | 29.7 | 8.0 8.0 | 8.0 | 11.8 12.7 | 12.3 | 79.8 81.3 | 80.6 | 5.6 5.8 | 5.7 | 5.0 | 4.8 4.6 | 4.7 | 4.7 | 5.6 5.1 | 5.4 | 6.0 |
| | | | | | Bottom | 15.0 | 29.6 29.4 | 29.5 | 8.0 7.9 | 7.9 | 13.8 17.0 | 15.4 | 77.0 77.6 | 77.3 | 5.5 5.5 | 5.5 | 5.5 | 4.9 4.8 | 4.9 | | 7.1 5.7 | 6.4 | |
| 29-Aug-16 | Sunny | Moderate | 17:00 | | Surface | 1.0 | 27.9 28.0 | 28.0 | 8.3 8.3 | 8.3 | 26.5 26.2 | 26.3 | 80.2 82.9 | 81.6 | 5.4 5.6 | 5.5 | 5.4 | 3.8 3.8 | 3.8 | | 7.0 6.6 | 6.8 | |
| | | | | 18.1 | Middle | 9.1 | 27.7 27.8 | 27.8 | 8.2 8.2 | 8.2 | 27.3 26.8 | 27.0 | 76.3 78.0 | 77.2 | 5.1 5.3 | 5.2 | 5.4 | 3.8 4.0 | 3.9 | 3.9 | 8.0 7.4 | 7.7 | 7.0 |
| | | | | | Bottom | 17.1 | 27.6 27.2 | 27.4 | 8.2 8.2 | 8.2 | 28.1 29.5 | 28.8 | 77.6 74.6 | 76.1 | 5.3 5.1 | 5.2 | 5.2 | 4.0 3.9 | 4.0 | | 6.9 6.2 | 6.6 | |
| 31-Aug-16 | Sunny | Moderate | 18:56 | | Surface | 1.0 | 28.5 28.5 | 28.5 | 8.1 8.0 | 8.0 | 24.8 24.8 | 24.8 | 80.1 79.7 | 79.9 | 5.4 5.3 | 5.3 | 5.3 | 6.3 6.3 | 6.3 | _ | 3.5 5.0 | 4.3 | |
| | | | | 15.9 | Middle | 8.0 | 28.5 28.5 | 28.5 | 8.0 8.1 | 8.1 | 25.1 25.3 | 25.2 | 79.3 79.5 | 79.4 | 5.3 5.3 | 5.3 | 5.5 | 6.4 6.5 | 6.5 | 6.5 | 4.6 5.6 | 5.1 | 5.4 |
| | | | | | Bottom | 14.9 | 28.5 28.5 | 28.5 | 8.0 8.0 | 8.0 | 25.5 25.6 | 25.5 | 78.8 79.1 | 79.0 | 5.3 5.3 | 5.3 | 5.3 | 6.7 6.8 | 6.8 | | 6.3 7.2 | 6.8 | |

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

[^] As Tropical Cyclone Warning Signal No.3 or above was hoisted, water quality monitoring (except the monitoring locations named CSA, CS6, SR10B(N) and SR10A during Mid-Ebb Tide) was stopped according to the Contingency Plan for Impact Monitoring.

^{*} DA: Depth-Averaged

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at CS(Mf)5 - Mid-EbbTide

| Date | Weather | Sea | Sampling | Water | Samp | ling | Temper | ature (°C) | | Н | Salini | ty (ppt) | DO Satu | ration (%) | Dissol | ved Oxygen | (mg/L) | Т | urbidity(NT | J) | Suspe | nded Solids | (mg/L) |
|------------|-----------|-------------|----------|-----------|---------|------|----------------------|------------|------------|---------|--------------|----------|--------------|------------|------------|------------|--------|--------------|-------------|------|--------------|-------------|-------------|
| | Condition | Condition** | Time | Depth (m) | Depth | (m) | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | DA* | Value | Average | DA* | Value | Average | DA* |
| 1-Aug-16^ | Cloudy | Moderate | - | | Surface | - | - | - | - | - | - | - | - | - | - | - | | - | - | | - | - | |
| | | | | - | Middle | - | - | - | - | - | - | - | - | - | - | - | - | - | - | = | - | - | <u> </u> |
| | | | | | Bottom | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | - | - | |
| 3-Aug-16 | Cloudy | Moderate | 13:26 | | Surface | 1.0 | 26.0 25.9 | 25.9 | 8.2 8.2 | 8.2 | 27.5 27.2 | 27.3 | 86.3 80.3 | 83.3 | 6.1 5.7 | 5.9 | | 8.8 8.5 | 8.7 | | 8.2 9.2 | 8.7 | |
| | | | | 12.6 | Middle | 6.3 | 25.9 25.1 25.4 | 25.3 | 8.2 | 8.2 | 29.2 | 29.0 | 80.0 | 82.1 | 5.6 | 5.8 | 5.9 | 8.7 8.8 | 8.8 | 8.8 | 11.6 | 11.7 | 10.3 |
| | | | | | Bottom | 11.6 | 24.8 | 24.9 | 8.2 8.2 | 8.2 | 28.9 31.3 | 31.5 | 84.1 82.7 | 80.6 | 5.9 5.8 | 5.7 | 5.7 | 8.9 | 8.9 | | 11.8 | 10.5 | |
| 5-Aug-16 | Sunny | Moderate | 14:39 | | Surface | 1.0 | 24.9 27.0 | 27.1 | 8.2 8.2 | 8.2 | 31.8 24.3 | 24.4 | 78.5 75.8 | 79.7 | 5.5 5.2 | 5.5 | | 8.9 6.6 | 6.7 | | 10.7 4.7 | 5.2 | |
| | | | | 11.3 | Middle | 5.7 | 27.1 25.8 | 25.9 | 8.2 8.2 | 8.2 | 24.4 26.3 | 26.1 | 83.6 80.3 | 76.9 | 5.8 5.5 | 5.3 | 5.4 | 6.8 | 6.8 | 6.7 | 5.6 7.7 | 7.7 | 6.9 |
| | | | | | Bottom | 10.3 | 25.9 25.3 | 25.4 | 8.2 8.2 | 8.2 | 25.9 28.8 | 28.6 | 73.4 80.0 | 76.4 | 5.1 5.5 | 5.3 | 5.3 | 6.7 | 6.7 | • | 7.6 | 7.7 | |
| 8-Aug-16 | Sunny | Moderate | 16:34 | | Surface | 1.0 | 25.4 28.9 | 28.9 | 8.2 8.0 | 8.0 | 28.4 19.6 | 19.7 | 72.8 84.4 | 83.5 | 5.0 5.8 | 5.8 | | 6.6 3.0 | 3.1 | | 7.7 5.4 | 4.9 | |
| | | | | 12.1 | Middle | 6.1 | 28.9 25.8 | 25.9 | 8.0 8.0 | 8.0 | 19.7 25.4 | 25.8 | 82.5 83.2 | 81.6 | 5.7 5.7 | 5.6 | 5.7 | 3.2 3.5 | 3.5 | 3.4 | 3.5 | 3.6 | 4.8 |
| | | | | 12.1 | Bottom | 11.1 | 25.9 25.3 | 25.5 | 8.0 8.0 | 8.0 | 26.3 30.1 | 30.0 | 80.0 74.0 | 75.4 | 5.5 5.2 | 5.3 | 5.3 | 3.4 3.5 | 3.5 | 0.4 | 3.6 6.8 | 5.9 | 4.0 |
| 10-Aug-16 | Rainy | Moderate | 17:46 | | | 1.0 | 25.6 27.8 | 27.8 | 8.0 8.3 | 8.3 | 30.0 20.9 | 21.0 | 76.8 84.2 | 84.2 | 5.4 6.0 | 5.9 | 5.5 | 3.5 2.3 | | | 5.0 1.0 | | |
| | | | | 44.0 | Surface | | 27.9 26.9 | 26.2 | 8.3 8.3 | 8.3 | 21.0 25.9 | 27.2 | 84.2 81.0 | - | 5.9 5.7 | | 5.8 | 2.4 | 2.4 | 2.5 | 0.9 1.4 | 1.0 | 4.5 |
| | | | | 11.8 | Middle | 5.9 | 25.6 24.8 | | 8.2 8.2 | | 28.5 32.4 | | 82.4 77.2 | 81.7 | 5.8 5.4 | 5.7 | | 2.4 | 2.5 | 2.5 | 1.6 | 1.5 | 1.5 |
| 12-Aug-16 | Rainy | Moderate | 07:55 | | Bottom | 10.8 | 25.2 27.0 | 25.0 | 8.2 | 8.2 | 32.2 23.3 | 32.3 | 79.4 81.8 | 78.3 | 5.6 5.7 | 5.5 | 5.5 | 2.5 | 2.6 | | 1.9 | 1.9 | <u> </u> |
| 12 /lug 10 | rtairy | Woderate | 07.00 | | Surface | 1.0 | 26.8 26.5 | 26.9 | 8.2 8.2 | 8.2 | 23.4 25.9 | 23.3 | 81.6 81.0 | 81.7 | 5.6 5.6 | 5.7 | 5.7 | 2.7 | 2.7 | | 1.1 | 1.1 | |
| | | | | 12.5 | Middle | 6.3 | 26.0 24.6 | 26.3 | 8.2 8.1 | 8.2 | 26.7 33.3 | 26.3 | 79.2 76.8 | 80.1 | 5.5 5.3 | 5.6 | | 3.5 3.5 | 3.5 | 3.3 | 2.7 | 3.2 | 2.5 |
| 45 4 40 | Clavidi | Madaata | 40.50 | | Bottom | 11.5 | 24.9 26.6 | 24.7 | 8.1 8.3 | 8.1 | 33.0 25.2 | 33.1 | 77.1 76.7 | 77.0 | 5.4 | 5.4 | 5.4 | 3.6 | 3.6 | | 3.5 | 3.2 | |
| 15-Aug-16 | Cloudy | Moderate | 10:50 | | Surface | 1.0 | 26.4 | 26.5 | 8.3 | 8.3 | 25.2 | 25.2 | 78.6 | 77.7 | 5.3 5.3 | 5.3 | 5.3 | 3.8 | 3.8 | | 5.3 5.5 | 5.4 | |
| | | | | 12.0 | Middle | 6.0 | 25.3 25.5 | 25.4 | 8.2 8.2 | 8.2 | 29.7 29.7 | 29.7 | 74.4 76.4 | 75.4 | 5.1 5.2 | 5.2 | | 4.7 | 4.8 | 4.5 | 5.6 4.8 | 5.2 | 5.3 |
| | | | | | Bottom | 11.0 | 24.8 24.8 | 24.8 | 8.2 8.2 | 8.2 | 32.8 32.9 | 32.8 | 73.0 70.9 | 72.0 | 5.0 4.8 | 4.9 | 4.9 | 4.7 4.8 | 4.8 | | 5.7 4.8 | 5.3 | <u> </u> |
| 17-Aug-16 | Rainy | Moderate | 12:00 | | Surface | 1.0 | 26.2 26.2 | 26.2 | 8.3 8.3 | 8.3 | 27.7 27.6 | 27.7 | 79.0 78.8 | 78.9 | 5.5 5.5 | 5.5 | 5.5 | 3.1 3.2 | 3.2 | | 5.0 4.4 | 4.7 | |
| | | | | 13.3 | Middle | 6.7 | 26.2 26.1 | 26.1 | 8.3 8.3 | 8.3 | 27.7 27.8 | 27.8 | 78.0 78.3 | 78.2 | 5.4 5.4 | 5.4 | | 3.4 3.5 | 3.5 | 3.5 | 4.4 3.9 | 4.2 | 4.5 |
| | | | | | Bottom | 12.3 | 26.1 26.2 | 26.2 | 8.3 8.3 | 8.3 | 27.8 27.9 | 27.8 | 77.2 77.6 | 77.4 | 5.3 5.4 | 5.3 | 5.3 | 3.7 3.8 | 3.8 | | 5.4 3.8 | 4.6 | <u> </u> |
| 19-Aug-16 | Fine | Moderate | 13:48 | | Surface | 1.0 | 26.3 26.3 | 26.3 | 8.2 8.2 | 8.2 | 27.9 27.9 | 27.9 | 79.2 85.6 | 82.4 | 5.5 6.0 | 5.7 | 5.6 | 11.0 11.5 | 11.3 | | 10.1 9.7 | 9.9 | |
| | | | | 11.3 | Middle | 5.7 | 26.0 26.0 | 26.0 | 8.2 8.2 | 8.2 | 28.5 28.5 | 28.5 | 78.0 80.8 | 79.4 | 5.4 5.6 | 5.5 | J.0 | 11.2 11.1 | 11.2 | 11.3 | 10.4 12.1 | 11.3 | 11.0 |
| | | | | | Bottom | 10.3 | 26.1 25.9 | 26.0 | 8.2 8.3 | 8.2 | 28.4 28.6 | 28.5 | 77.7 80.1 | 78.9 | 5.4 5.6 | 5.5 | 5.5 | 11.4 11.2 | 11.3 | | 12.5 11.3 | 11.9 | |

Remarks:

* DA: Depth-Averaged

** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at CS(Mf)5 - Mid-EbbTide

| Date | Weather | Sea | Sampling | Water | Samp | ling | Tempera | ature (°C) | | ρΗ | Salini | ty (ppt) | DO Satu | ration (%) | Dissolv | red Oxygen | (mg/L) | Т | urbidity(NT | J) | Susper | nded Solids | (mg/L) |
|-----------|-----------|-------------|----------|-----------|---------|------|--------------|------------|------------|---------|--------------|----------|--------------|------------|------------|------------|--------|--------------|-------------|------|--------------|-------------|----------|
| | Condition | Condition** | Time | Depth (m) | Depth | (m) | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | DA* | Value | Average | DA* | Value | Average | DA* |
| 22-Aug-16 | Sunny | Moderate | 15:26 | | Surface | 1.0 | 28.6 28.5 | 28.5 | 8.2 8.2 | 8.2 | 21.2 21.3 | 21.3 | 76.2 77.8 | 77.0 | 5.4 5.5 | 5.5 | 5.5 | 5.6 5.7 | 5.7 | | 5.8 4.9 | 5.4 | |
| | | | | 11.9 | Middle | 6.0 | 27.2 27.0 | 27.1 | 8.2 8.2 | 8.2 | 26.1 25.9 | 26.0 | 75.2 76.2 | 75.7 | 5.4 5.4 | 5.4 | 0.0 | 7.8 7.8 | 7.8 | 7.1 | 5.6 5.7 | 5.7 | 5.5 |
| | | | | | Bottom | 10.9 | 26.7 27.1 | 26.9 | 8.2 8.2 | 8.2 | 28.0 28.2 | 28.1 | 73.8 72.5 | 73.2 | 5.3 5.2 | 5.2 | 5.2 | 7.8 7.8 | 7.8 | | 5.0 5.5 | 5.3 | |
| 24-Aug-16 | Sunny | Moderate | 17:22 | | Surface | 1.0 | 29.3 29.3 | 29.3 | 8.3 8.3 | 8.3 | 21.2 20.9 | 21.1 | 90.0 82.5 | 86.3 | 6.3 5.8 | 6.0 | 5.9 | 2.3 2.5 | 2.4 | | 2.6 2.2 | 2.4 | |
| | | | | 11.9 | Middle | 6.0 | 27.4 27.4 | 27.4 | 8.3 8.3 | 8.3 | 28.1 27.3 | 27.7 | 82.2 85.5 | 83.9 | 5.7 5.9 | 5.8 | 0.0 | 2.3 2.3 | 2.3 | 2.4 | 2.2 2.1 | 2.2 | 2.4 |
| | | | | | Bottom | 10.9 | 27.3 27.1 | 27.2 | 8.3 8.2 | 8.3 | 29.1 29.4 | 29.2 | 82.1 78.0 | 80.1 | 5.7 5.4 | 5.5 | 5.5 | 2.3 2.4 | 2.4 | | 2.5 2.9 | 2.7 | |
| 26-Aug-16 | Sunny | Moderate | 07:17 | | Surface | 1.0 | 28.7 28.6 | 28.6 | 8.2 8.2 | 8.2 | 22.3 22.7 | 22.5 | 76.9 77.4 | 77.2 | 5.3 5.2 | 5.3 | 5.3 | 4.1 4.4 | 4.3 | | 3.0 2.0 | 2.5 | |
| | | | | 12.6 | Middle | 6.3 | 27.9 27.6 | 27.8 | 8.2 8.2 | 8.2 | 25.1 25.8 | 25.5 | 76.7 76.5 | 76.6 | 5.1 5.2 | 5.2 | 5.5 | 5.2 5.1 | 5.2 | 4.9 | 2.5 3.9 | 3.2 | 2.9 |
| | | | | | Bottom | 11.6 | 28.1 27.7 | 27.9 | 8.2 8.1 | 8.2 | 28.8 29.0 | 28.9 | 74.7 74.6 | 74.7 | 5.1 5.1 | 5.1 | 5.1 | 5.0 5.1 | 5.1 | | 2.7 3.2 | 3.0 | |
| 29-Aug-16 | Sunny | Moderate | 10:48 | | Surface | 1.0 | 27.8 27.5 | 27.7 | 8.3 8.3 | 8.3 | 25.6 26.8 | 26.2 | 77.2 76.4 | 76.8 | 5.3 5.2 | 5.2 | 5.2 | 3.8 3.7 | 3.8 | | 5.0 5.5 | 5.3 | |
| | | | | 12.3 | Middle | 6.2 | 26.4 26.5 | 26.5 | 8.2 8.3 | 8.3 | 32.0 32.0 | 32.0 | 75.3 74.4 | 74.9 | 5.2 5.1 | 5.2 | 5.2 | 3.9 3.8 | 3.9 | 3.9 | 5.7 5.2 | 5.5 | 5.7 |
| | | | | | Bottom | 11.3 | 26.4 26.6 | 26.5 | 8.2 8.2 | 8.2 | 32.8 32.5 | 32.6 | 70.3 69.3 | 69.8 | 4.8 4.7 | 4.8 | 4.8 | 3.8 3.9 | 3.9 | | 5.8 6.5 | 6.2 | |
| 31-Aug-16 | Sunny | Moderate | 12:16 | | Surface | 1.0 | 27.6 27.5 | 27.6 | 8.3 8.3 | 8.3 | 30.5 30.5 | 30.5 | 76.1 77.4 | 76.8 | 5.0 5.1 | 5.1 | 5.1 | 10.7 11.1 | 10.9 | _ | 11.5 11.8 | 11.7 | |
| | | | | 12.5 | Middle | 6.3 | 27.2 27.2 | 27.2 | 8.3 8.3 | 8.3 | 31.2 31.2 | 31.2 | 77.0 76.1 | 76.6 | 5.1 5.0 | 5.1 | J. I | 11.2 11.3 | 11.3 | 11.1 | 11.8 10.5 | 11.2 | 11.6 |
| | | | | | Bottom | 11.5 | 27.2 27.2 | 27.2 | 8.3 8.3 | 8.3 | 31.2 31.3 | 31.3 | 75.5 76.2 | 75.9 | 5.0 5.1 | 5.0 | 5.0 | 11.1 11.1 | 11.1 | | 11.5 12.3 | 11.9 | <u> </u> |

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

[^] As Tropical Cyclone Warning Signal No.3 or above was hoisted, water quality monitoring (except the monitoring locations named CSA, CS6, SR10B(N) and SR10A during Mid-Ebb Tide) was stopped according to the Contingency Plan for Impact Monitoring.

^{*} DA: Depth-Averaged

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at CS(Mf)5 - Mid-FloodTide

| Date | Weather | Sea | Sampling | Water | Samp | ling | Temper | ature (°C) | | Н | Salini | ty (ppt) | DO Satu | ration (%) | Dissol | ved Oxygen | (mg/L) | Т | urbidity(NT | J) | Suspe | nded Solids | s (mg/L) |
|-----------|-----------|-------------|----------|-----------|---------|------|----------------------|------------|------------|---------|--------------|----------|--------------|------------|------------|------------|---------|------------|-------------|-----|------------|-------------|----------|
| | Condition | Condition** | Time | Depth (m) | Depth | (m) | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | DA* | Value | Average | DA* | Value | Average | DA* |
| 1-Aug-16^ | Cloudy | Moderate | - | | Surface | - | - | - | - | - | - | - | - | - | - | - | | - | - | | - | - | |
| | | | | - | Middle | - | - | - | - | - | - | - | - | - | - | - | - | - | - | = | - | - | _ |
| | | | | | Bottom | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | - | - | |
| 3-Aug-16 | Cloudy | Moderate | 06:07 | | Surface | 1.0 | 25.1 25.2 | 25.1 | 8.2 8.2 | 8.2 | 31.4 31.3 | 31.4 | 74.8 73.4 | 74.1 | 5.2 5.1 | 5.2 | | 6.8 6.7 | 6.8 | | 5.8 5.6 | 5.7 | |
| | | | | 12.7 | Middle | 6.4 | 24.4 24.4 | 24.4 | 8.2 8.2 | 8.2 | 34.6 34.8 | 34.7 | 72.9 73.1 | 73.0 | 5.1 5.1 | 5.1 | 5.2 | 7.7 | 7.7 | 7.4 | 7.0 5.1 | 6.1 | 6.4 |
| | | | | | Bottom | 11.7 | 24.4 24.4 24.6 | 24.5 | 8.2 | 8.2 | 34.9 34.6 | 34.8 | 72.6 | 71.9 | 5.1 | 5.0 | 5.0 | 7.8 | 7.7 | | 7.0 | 7.3 | |
| 5-Aug-16 | Sunny | Moderate | 07:37 | | Surface | 1.0 | 25.7 | 25.5 | 8.2 | 8.1 | 26.9 | 27.0 | 71.1 | 79.4 | 5.0 | 5.7 | | 7.6 6.1 | 6.2 | | 6.1 | 5.9 | |
| | | | | 11.8 | Middle | 5.9 | 25.3 24.6 | 24.6 | 8.1 8.1 | 8.1 | 27.2 31.0 | 31.0 | 79.1 77.7 | 78.0 | 5.7 5.6 | 5.6 | 5.7 | 6.2 | 6.6 | 6.5 | 5.6 5.5 | 5.6 | 5.8 |
| | | | | | Bottom | 10.8 | 24.6 24.8 | 24.7 | 8.1 8.1 | 8.1 | 31.0 31.2 | 31.4 | 78.2 77.0 | 76.9 | 5.6 5.5 | 5.5 | 5.5 | 6.6 | 6.6 | | 5.7 5.2 | 6.0 | 1 |
| 8-Aug-16 | Sunny | Moderate | 09:26 | <u> </u> | Surface | 1.0 | 24.5 28.2 | 28.2 | 8.1 8.0 | 8.0 | 31.5 19.8 | 19.8 | 76.8 74.0 | 74.9 | 5.5 5.2 | 5.2 | | 6.6 5.1 | 5.0 | | 6.7 4.4 | 4.0 | |
| | | | | 12.4 | Middle | 6.2 | 28.2 26.6 | 26.1 | 8.0 8.0 | 8.0 | 19.8 26.0 | 26.5 | 75.8 73.9 | 72.9 | 5.3 5.1 | 5.1 | 5.2 | 4.9 5.4 | 5.3 | 5.3 | 3.6 4.1 | 4.7 | 4.2 |
| | | | | 12 | Bottom | 11.4 | 25.5 25.2 | 25.2 | 8.0 8.0 | 8.0 | 27.0 30.5 | 30.5 | 71.8 70.2 | 71.3 | 5.0 4.9 | 4.9 | 4.9 | 5.2 5.4 | 5.5 | 0.0 | 5.2 3.6 | 3.9 | "- |
| 10-Aug-16 | Rainy | Moderate | 11:33 | | Surface | 1.0 | 25.2 27.8 | 27.9 | 8.0 8.3 | 8.3 | 30.5 20.6 | 20.3 | 72.3 78.5 | 79.8 | 5.0 5.6 | 5.7 | 4.5 | 5.5 3.1 | 3.2 | | 4.1 0.9 | 1.0 | |
| | | | | 12.7 | Middle | 6.4 | 27.9 26.0 | 26.0 | 8.3 8.2 | 8.2 | 20.0 28.8 | 29.0 | 81.1 77.1 | 76.4 | 5.8 5.4 | 5.7 | 5.5 | 3.2 | 3.5 | 3.4 | 1.0 | 1.3 | 1.3 |
| | | | | 12.7 | | | 25.9 24.9 | | 8.2 8.1 | | 29.1 33.1 | | 75.6 72.1 | | 5.3 5.1 | | <i></i> | 3.5 3.5 | | 3.4 | 1.2 1.6 | | 1.3 |
| 12-Aug-16 | Fine | Moderate | 15:22 | | Bottom | 11.7 | 24.9 27.6 | 24.9 | 8.2 8.3 | 8.2 | 32.9 21.3 | 33.0 | 72.4 77.1 | 72.3 | 5.1 5.4 | 5.1 | 5.1 | 3.6 2.4 | 3.6 | | 1.6 2.1 | 1.6 | |
| | | | | | Surface | 1.0 | 27.6 25.1 | 27.6 | 8.3 8.2 | 8.3 | 21.5 29.8 | 21.4 | 78.8 74.7 | 78.0 | 5.5 5.2 | 5.4 | 5.4 | 2.4 | 2.4 | | 2.1 | 2.1 | |
| | | | | 12.4 | Middle | 6.2 | 24.8 | 25.0 | 8.2 8.2 | 8.2 | 30.3 31.7 | 30.0 | 76.6 70.7 | 75.7 | 5.4 4.9 | 5.3 | | 2.2 | 2.2 | 2.3 | 2.7 | 2.4 | 2.3 |
| 15-Aug-16 | Cloudy | Moderate | 18:26 | | Bottom | 11.4 | 24.5 27.1 | 24.6 | 8.2 8.3 | 8.2 | 32.3 23.8 | 32.0 | 73.9 90.9 | 72.3 | 5.2 | 5.0 | 5.0 | 2.2 | 2.2 | | 2.5 | 2.5 | |
| 13-Aug-10 | Cloudy | Moderate | 10.20 | | Surface | 1.0 | 27.0 25.0 | 27.1 | 8.3 8.2 | 8.3 | 23.7 | 23.7 | 89.3 86.6 | 90.1 | 6.0 | 6.1 | 6.0 | 5.4 5.3 | 5.5 | | 5.9 6.7 | 6.0 | 4 |
| | | | | 11.4 | Middle | 5.7 | 25.3 24.9 | 25.2 | 8.2 8.2 | 8.2 | 30.8 31.9 | 30.9 | 85.3 80.7 | 86.0 | 5.8 5.4 | 5.8 | | 5.5 5.4 | 5.4 | 5.4 | 6.5 5.1 | 6.6 | 6.1 |
| 47.440 | Delice | Madaga | 40.40 | | Bottom | 10.4 | 24.7 | 24.8 | 8.2 | 8.2 | 31.9 | 31.9 | 74.6 | 77.7 | 5.0 | 5.2 | 5.2 | 5.4 | 5.4 | | 6.3 | 5.7 | <u> </u> |
| 17-Aug-16 | Rainy | Moderate | 19:43 | | Surface | 1.0 | 25.4 25.4 | 25.4 | 8.3 8.3 | 8.3 | 29.3 29.2 | 29.2 | 78.6 78.0 | 78.3 | 5.4 5.4 | 5.4 | 5.4 | 5.3 5.2 | 5.3 | | 4.8 4.9 | 4.9 | - |
| | | | | 13.3 | Middle | 6.7 | 25.5 25.4 | 25.5 | 8.3 8.3 | 8.3 | 29.2 29.3 | 29.3 | 77.2 77.3 | 77.3 | 5.3 5.3 | 5.3 | | 5.6 5.4 | 5.5 | 5.6 | 5.6 6.2 | 5.9 | 5.4 |
| | | | | | Bottom | 12.3 | 25.4 25.8 | 25.6 | 8.3 8.3 | 8.3 | 29.2 28.0 | 28.6 | 76.5 76.6 | 76.6 | 5.3 5.3 | 5.3 | 5.3 | 5.8 5.9 | 5.9 | | 5.0 5.8 | 5.4 | |
| 19-Aug-16 | Fine | Moderate | 06:46 | | Surface | 1.0 | 26.0 25.8 | 25.9 | 8.1 8.1 | 8.1 | 27.9 28.3 | 28.1 | 74.6 74.0 | 74.3 | 5.2 5.1 | 5.2 | 5.2 | 8.4 8.1 | 8.3 | | 2.4 3.4 | 2.9 | |
| | | | | 12.3 | Middle | 6.2 | 25.6 25.6 | 25.6 | 8.1 8.1 | 8.1 | 30.0 30.0 | 30.0 | 74.4 73.4 | 73.9 | 5.2 5.1 | 5.2 | | 8.5 8.6 | 8.6 | 8.5 | 2.3 2.9 | 2.6 | 3.8 |
| | | | | | Bottom | 11.3 | 25.6 25.6 | 25.6 | 8.1 8.1 | 8.1 | 30.1 30.0 | 30.1 | 73.3 73.1 | 73.2 | 5.1 5.1 | 5.1 | 5.1 | 8.5 8.7 | 8.6 | | 5.3 6.2 | 5.8 | |

Remarks:

* DA: Depth-Averaged

** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at CS(Mf)5 - Mid-FloodTide

| Date | Weather | Sea | Sampling | Water | Samp | ling | Tempera | ature (°C) | | ρΗ | Salini | ty (ppt) | DO Satu | ration (%) | Dissol | ved Oxygen | (mg/L) | 1 | urbidity(NTl | J) | Suspe | nded Solids | s (mg/L) |
|-----------|-----------|-------------|----------|-----------|---------|------|--------------|------------|------------|---------|--------------|----------|--------------|------------|------------|------------|--------|--------------|--------------|------|------------|-------------|----------|
| | Condition | Condition** | Time | Depth (m) | Depth | (m) | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | DA* | Value | Average | DA* | Value | Average | DA* |
| 22-Aug-16 | Sunny | Moderate | 08:51 | | Surface | 1.0 | 27.6 27.4 | 27.5 | 8.2 8.2 | 8.2 | 23.1 23.2 | 23.1 | 73.3 72.9 | 73.1 | 5.3 5.2 | 5.3 | 5.2 | 5.2 5.4 | 5.3 | | 5.0 4.0 | 4.5 | |
| | | | | 12.5 | Middle | 6.3 | 26.9 27.0 | 26.9 | 8.2 8.2 | 8.2 | 27.6 27.5 | 27.6 | 72.3 72.2 | 72.3 | 5.1 5.1 | 5.1 | 0.2 | 5.5 5.5 | 5.5 | 5.5 | 4.8 4.1 | 4.5 | 5.4 |
| | | | | | Bottom | 11.5 | 26.8 26.9 | 26.9 | 8.2 8.2 | 8.2 | 28.7 28.4 | 28.5 | 71.8 71.8 | 71.8 | 5.1 5.1 | 5.1 | 5.1 | 5.6 5.6 | 5.6 | | 7.2 7.1 | 7.2 | |
| 24-Aug-16 | Sunny | Moderate | 11:15 | | Surface | 1.0 | 27.9 28.5 | 28.2 | 8.2 8.2 | 8.2 | 24.4 23.8 | 24.1 | 74.7 74.5 | 74.6 | 5.2 5.2 | 5.2 | 5.2 | 4.9 4.9 | 4.9 | | 1.5 1.4 | 1.5 | |
| | | | | 12.8 | Middle | 6.4 | 27.0 27.1 | 27.0 | 8.2 8.2 | 8.2 | 30.6 30.6 | 30.6 | 74.4 74.4 | 74.4 | 5.1 5.1 | 5.1 | 0.2 | 4.8 4.8 | 4.8 | 4.8 | 1.4 1.3 | 1.4 | 1.5 |
| | | | | | Bottom | 11.8 | 27.4 27.1 | 27.2 | 8.2 8.1 | 8.2 | 30.6 30.9 | 30.7 | 73.2 72.8 | 73.0 | 5.0 5.0 | 5.0 | 5.0 | 4.8 4.8 | 4.8 | | 1.7 1.6 | 1.7 | |
| 26-Aug-16 | Sunny | Moderate | 14:28 | | Surface | 1.0 | 29.9 29.9 | 29.9 | 8.4 8.5 | 8.4 | 19.1 19.0 | 19.1 | 94.7 91.9 | 93.3 | 6.5 6.3 | 6.4 | 6.3 | 3.4 3.4 | 3.4 | | 4.2 4.9 | 4.6 | |
| | | | | 12.0 | Middle | 6.0 | 28.2 28.1 | 28.2 | 8.3 8.4 | 8.4 | 26.3 27.5 | 26.9 | 89.2 91.1 | 90.2 | 6.0 6.1 | 6.1 | 0.3 | 3.5 3.5 | 3.5 | 3.5 | 4.2 5.0 | 4.6 | 4.5 |
| | | | | | Bottom | 11.0 | 27.8 27.7 | 27.8 | 8.3 8.4 | 8.4 | 28.8 27.7 | 28.3 | 81.4 81.2 | 81.3 | 5.5 5.5 | 5.5 | 5.5 | 3.5 3.5 | 3.5 | | 4.8 3.9 | 4.4 | |
| 29-Aug-16 | Sunny | Moderate | 18:11 | | Surface | 1.0 | 27.3 27.3 | 27.3 | 8.4 8.4 | 8.4 | 28.2 28.0 | 28.1 | 80.6 78.4 | 79.5 | 5.6 5.4 | 5.5 | 5.4 | 6.7 6.8 | 6.8 | | 5.0 4.9 | 5.0 | |
| | | | | 12.0 | Middle | 6.0 | 26.9 26.8 | 26.9 | 8.4 8.4 | 8.4 | 30.9 30.9 | 30.9 | 76.0 76.3 | 76.2 | 5.2 5.3 | 5.2 | 3.4 | 6.8 6.8 | 6.8 | 6.8 | 8.5 7.5 | 8.0 | 6.9 |
| | | | | | Bottom | 11.0 | 27.0 26.7 | 26.9 | 8.4 8.4 | 8.4 | 31.0 31.4 | 31.2 | 72.0 72.4 | 72.2 | 5.0 4.9 | 5.0 | 5.0 | 6.6 6.8 | 6.7 | | 7.9 7.3 | 7.6 | |
| 31-Aug-16 | Sunny | Moderate | 19:11 | | Surface | 1.0 | 28.0 27.9 | 28.0 | 8.4 8.4 | 8.4 | 27.6 27.6 | 27.6 | 82.0 87.7 | 84.9 | 5.5 5.9 | 5.7 | 5.6 | 10.5 10.1 | 10.3 | _ | 8.4 8.7 | 8.6 | |
| | | | | 12.7 | Middle | 6.4 | 27.3 27.3 | 27.3 | 8.4 8.4 | 8.4 | 29.1 29.2 | 29.2 | 82.1 81.5 | 81.8 | 5.5 5.4 | 5.5 | 5.0 | 10.5 10.6 | 10.6 | 10.4 | 8.4 9.2 | 8.8 | 8.9 |
| | | | | | Bottom | 11.7 | 27.4 27.0 | 27.2 | 8.4 8.4 | 8.4 | 29.5 29.9 | 29.7 | 79.0 81.0 | 80.0 | 5.3 5.4 | 5.3 | 5.3 | 10.4 10.2 | 10.3 | | 8.8 9.9 | 9.4 | |

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

[^] As Tropical Cyclone Warning Signal No.3 or above was hoisted, water quality monitoring (except the monitoring locations named CSA, CS6, SR10B(N) and SR10A during Mid-Ebb Tide) was stopped according to the Contingency Plan for Impact Monitoring.

^{*} DA: Depth-Averaged

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Appendix J - Marine Water Quality Monitoring Results

Water Quality Monitoring Results at CS6 - Mid-EbbTide

| Date | Weather | Sea | Sampling | Water | Sampl | ling | Tempera | ature (°C) | F | Н | Salini | ty (ppt) | DO Satu | ration (%) | Dissolv | ed Oxygen | (mg/L) | Т | urbidity(NTl | J) | Suspe | nded Solids | (mg/L) |
|-------------|-----------|-------------|----------|-----------|---------|------|--------------|------------|------------|---------|--------------|----------|--------------|------------|------------|-----------|------------|------------|--------------|-----|------------|-------------|--------|
| | Condition | Condition** | Time | Depth (m) | Depth | (m) | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | DA* | Value | Average | DA* | Value | Average | DA* |
| 1-Aug-16 | Cloudy | Moderate | 11:15 | | Surface | 1.0 | 26.5 26.6 | 26.6 | 8.2 8.1 | 8.2 | 28.5 29.6 | 29.0 | 97.2 97.1 | 97.2 | 6.6 6.6 | 6.6 | | 2.4 2.5 | 2.5 | | 6.6 6.6 | 6.6 | |
| | | | | 10.8 | Middle | 5.4 | 26.7 26.6 | 26.6 | 8.2 8.2 | 8.2 | 29.1 28.6 | 28.8 | 96.8 96.9 | 96.9 | 6.6 6.6 | 6.6 | 6.6 | 2.6 2.6 | 2.6 | 2.6 | 6.1 7.5 | 6.8 | 7.1 |
| | | | | | Bottom | 9.8 | 26.5 26.6 | 26.5 | 8.2 8.2 | 8.2 | 28.4 28.5 | 28.5 | 96.3 96.6 | 96.5 | 6.6 6.6 | 6.6 | 6.6 | 2.7 | 2.8 | | 7.9 7.6 | 7.8 | |
| 3-Aug-16 | Cloudy | Moderate | 13:36 | | Surface | 1.0 | 26.2 | 26.2 | 8.0 | 8.0 | 24.9 | 25.7 | 78.7 | 80.9 | 5.5 | 5.7 | | 4.3 | 4.3 | | 6.3 | 6.0 | |
| | | | | 10.1 | Middle | 5.1 | 26.2 25.9 | 25.8 | 8.0 8.0 | 8.0 | 26.6 26.0 | 27.3 | 83.1 78.2 | 79.2 | 5.8 5.4 | 5.5 | 5.6 | 4.3 | 4.6 | 4.5 | 5.7 5.4 | 5.4 | 5.9 |
| | | | | | Bottom | 9.1 | 25.6 25.5 | 25.4 | 8.0 | 8.0 | 28.7 28.8 | 29.1 | 80.2 76.3 | 77.2 | 5.6 5.4 | 5.4 | 5.4 | 4.4 | 4.7 | | 5.3 6.3 | 6.4 | |
| 5-Aug-16 | Sunny | Moderate | 15:24 | | Surface | 1.0 | 25.4 26.2 | 26.4 | 8.0 7.9 | 7.9 | 29.4 26.2 | 25.8 | 78.0 73.9 | 73.9 | 5.4 5.2 | 5.2 | 0 | 4.5 5.2 | 5.3 | | 6.4 | 6.0 | |
| | | | | 44.0 | | | 26.7 25.9 | | 7.9 7.9 | _ | 25.4 26.9 | | 73.8 73.5 | | 5.2 5.2 | | 5.2 | 5.3 5.6 | | | 5.6 5.4 | | 5.0 |
| | | | | 11.2 | Middle | 5.6 | 26.4 25.6 | 26.1 | 7.9 7.9 | 7.9 | 26.4 28.1 | 26.7 | 73.1 72.6 | 73.3 | 5.1 5.1 | 5.1 | | 5.5 5.7 | 5.6 | 5.5 | 5.6 4.0 | 5.5 | 5.3 |
| 8-Aug-16 | Sunny | Moderate | 17:01 | | Bottom | 10.2 | 25.8 28.4 | 25.7 | 7.9 | 7.9 | 28.5 22.1 | 28.3 | 72.9 93.8 | 72.8 | 5.1 6.4 | 5.1 | 5.1 | 5.7 | 5.7 | | 5.0 | 4.5 | |
| 8-Aug-10 | Sullily | Moderate | 17.01 | | Surface | 1.0 | 28.5 28.3 | 28.5 | 8.0 8.0 | 8.0 | 22.4 | 22.3 | 93.4 93.2 | 93.6 | 6.4 | 6.4 | 6.4 | 2.4 | 2.4 | | 5.9 5.0 | 5.4 | |
| | | | | 10.4 | Middle | 5.2 | 28.3 | 28.3 | 8.0 | 8.0 | 22.5 | 22.5 | 93.7 | 93.5 | 6.4 | 6.4 | | 2.4 | 2.5 | 2.5 | 5.3 | 5.2 | 6.5 |
| | | | | | Bottom | 9.4 | 28.2 28.2 | 28.2 | 8.0 7.9 | 8.0 | 23.1 23.6 | 23.3 | 92.3 93.3 | 92.8 | 6.4 6.4 | 6.4 | 6.4 | 2.6 2.5 | 2.6 | | 8.8 8.7 | 8.8 | |
| 10-Aug-16 | Rainy | Moderate | 18:24 | | Surface | 1.0 | 27.8 27.7 | 27.7 | 8.1 8.1 | 8.1 | 22.4 22.4 | 22.4 | 92.9 92.9 | 92.9 | 6.5 6.5 | 6.5 | 6.4 | 1.3 1.3 | 1.3 | | 1.7 1.6 | 1.7 | |
| | | | | 10.4 | Middle | 5.2 | 27.6 27.5 | 27.6 | 8.1 8.1 | 8.1 | 22.7 22.8 | 22.7 | 91.9 91.7 | 91.8 | 6.3 6.4 | 6.3 | 0 | 1.4 1.3 | 1.4 | 1.4 | 1.6 1.6 | 1.6 | 2.1 |
| | | | | | Bottom | 9.4 | 27.3 27.4 | 27.4 | 8.0 8.1 | 8.0 | 25.6 25.6 | 25.6 | 89.1 90.9 | 90.0 | 6.2 6.3 | 6.3 | 6.3 | 1.5 1.5 | 1.5 | | 3.3 2.4 | 2.9 | |
| 12-Aug-16 | Rainy | Moderate | 07:32 | | Surface | 1.0 | 26.8 26.5 | 26.6 | 7.9 7.8 | 7.8 | 24.8 25.6 | 25.2 | 79.0 77.5 | 78.3 | 5.5 5.4 | 5.5 | | 1.0 1.0 | 1.0 | | 2.3 2.0 | 2.2 | |
| | | | | 10.1 | Middle | 5.1 | 25.9 25.8 | 25.9 | 7.8 7.8 | 7.8 | 28.8 29.3 | 29.0 | 76.5 76.6 | 76.6 | 5.3 5.3 | 5.3 | 5.4 | 1.2 | 1.1 | 1.1 | 3.9 2.6 | 3.3 | 2.8 |
| | | | | | Bottom | 9.1 | 25.7 25.6 | 25.7 | 7.8 7.7 | 7.7 | 30.2 30.3 | 30.3 | 74.6 74.3 | 74.5 | 5.2 5.1 | 5.2 | 5.2 | 1.2 1.2 | 1.2 | | 3.0 2.8 | 2.9 | |
| 15-Aug-16 | Cloudy | Moderate | 09:25 | | Surface | 1.0 | 26.9 | 26.7 | 8.0 7.9 | 7.9 | 25.4 | 25.8 | 84.8 | 85.1 | 5.9 | 5.9 | | 2.1 | 2.1 | | 6.8 | 6.6 | |
| | | | | 10.8 | Middle | 5.4 | 26.4 26.5 | 26.3 | 7.9 | 7.9 | 26.3 | 27.3 | 85.3 82.1 | 82.8 | 5.9 | 5.7 | 5.8 | 2.1 | 2.2 | 2.2 | 6.3 | 6.2 | 6.2 |
| | | | | | Bottom | 9.8 | 26.2 26.2 | 26.2 | 7.9 7.9 | 7.9 | 27.9 27.9 | 28.0 | 83.5 80.2 | 80.6 | 5.7 5.6 | 5.6 | 5.6 | 2.2 | 2.3 | | 6.0 | 5.9 | |
| 17-Aug-16 | Rainy | Moderate | 11:22 | | Surface | 1.0 | 26.2 25.8 | 25.7 | 7.9 7.9 | 7.9 | 28.1 | 28.8 | 74.9 | 75.4 | 5.6 5.2 | 5.2 | | 2.2 5.1 | 5.1 | | 5.6 6.4 | 6.8 | |
| | | | | 10.6 | Middle | 5.3 | 25.6 25.2 | 25.2 | 7.9 7.9 | 7.9 | 28.9 31.4 | 31.1 | 75.9 74.7 | 74.3 | 5.3 5.2 | 5.2 | 5.2 | 5.0 5.3 | 5.4 | 5.3 | 7.1 5.9 | 6.0 | 6.0 |
| | | | | 10.0 | | | 25.2 25.0 | | 7.9 7.9 | _ | 30.9 32.7 | | 73.9 73.3 | | 5.2 5.1 | | 5 4 | 5.4 5.5 | | ა.ა | 6.1 4.8 | | 0.0 |
| 19-Aug-16 | Fine | Moderate | 14:29 | | Bottom | 9.6 | 25.2 26.6 | 25.1 | 7.9 8.0 | 7.9 | 31.8 28.0 | 32.3 | 73.3 79.3 | 73.3 | 5.1 5.5 | 5.1 | 5.1 | 5.2 4.3 | 5.4 | | 5.8 8.9 | 5.3 | |
| .0 / lug 10 | 1 1110 | Moderate | 17.20 | | Surface | 1.0 | 26.6 26.1 | 26.6 | 8.0 8.0 | 8.0 | 27.9 28.8 | 28.0 | 78.9 77.6 | 79.1 | 5.4 5.3 | 5.4 | 5.4 | 4.2 | 4.3 | | 8.8 8.5 | 8.9 | |
| | | | | 10.5 | Middle | 5.3 | 26.2 | 26.2 | 8.0 | 8.0 | 28.6 | 28.7 | 78.4 | 78.0 | 5.3 | 5.3 | | 4.5 | 4.5 | 4.5 | 9.3 | 8.9 | 8.6 |
| | | | | | Bottom | 9.5 | 26.1 26.1 | 26.1 | 8.0 8.0 | 8.0 | 28.9 29.0 | 29.0 | 75.0 74.7 | 74.9 | 5.1 5.1 | 5.1 | 5.1 | 4.9 4.7 | 4.8 | | 8.2 7.8 | 8.0 | |

Remarks:

* DA: Depth-Averaged

** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at CS6 - Mid-EbbTide

| Date | Weather | Sea | Sampling | Water | Samp | ling | Tempera | ature (°C) | | ρΗ | Salini | ty (ppt) | DO Satu | ration (%) | Dissol | ved Oxygen | (mg/L) | 1 | urbidity(NTl | J) | Susper | nded Solids | s (mg/L) |
|-----------|-----------|-------------|----------|-----------|---------|------|--------------|------------|------------|---------|--------------|----------|--------------|------------|------------|------------|--------|------------|--------------|-----|------------|-------------|----------|
| | Condition | Condition** | Time | Depth (m) | Depth | (m) | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | DA* | Value | Average | DA* | Value | Average | DA* |
| 22-Aug-16 | Sunny | Moderate | 16:25 | | Surface | 1.0 | 28.3 28.7 | 28.5 | 8.0 8.0 | 8.0 | 24.0 23.2 | 23.6 | 79.5 79.4 | 79.5 | 5.5 5.5 | 5.5 | 5.5 | 2.4 2.5 | 2.5 | | 3.5 3.5 | 3.5 | |
| | | | | 10.3 | Middle | 5.2 | 27.9 28.5 | 28.2 | 8.0 8.0 | 8.0 | 26.0 23.4 | 24.7 | 78.8 79.7 | 79.3 | 5.4 5.4 | 5.4 | 3.3 | 2.6 2.6 | 2.6 | 2.6 | 3.4 3.1 | 3.3 | 3.6 |
| | | | | | Bottom | 9.3 | 27.9 28.1 | 28.0 | 7.9 7.9 | 7.9 | 27.0 25.7 | 26.3 | 77.4 77.4 | 77.4 | 5.3 5.3 | 5.3 | 5.3 | 2.7 2.8 | 2.8 | | 4.1 3.9 | 4.0 | |
| 24-Aug-16 | Sunny | Moderate | 17:13 | | Surface | 1.0 | 29.2 28.9 | 29.1 | 8.1 8.1 | 8.1 | 16.5 17.2 | 16.9 | 84.5 80.9 | 82.7 | 5.9 5.7 | 5.8 | 5.6 | 2.3 2.3 | 2.3 | | 0.9 1.0 | 1.0 | |
| | | | | 10.2 | Middle | 5.1 | 28.5 28.3 | 28.4 | 8.0 8.1 | 8.1 | 18.2 18.4 | 18.3 | 77.0 77.8 | 77.4 | 5.4 5.4 | 5.4 | 0.0 | 2.4 2.4 | 2.4 | 2.4 | 1.0 0.8 | 0.9 | 1.3 |
| | | | | | Bottom | 9.2 | 27.9 28.0 | 28.0 | 8.0 8.0 | 8.0 | 19.7 20.5 | 20.1 | 75.2 76.0 | 75.6 | 5.3 5.3 | 5.3 | 5.3 | 2.4 2.4 | 2.4 | | 1.9 2.2 | 2.1 | |
| 26-Aug-16 | Sunny | Moderate | 05:58 | | Surface | 1.0 | 28.8 28.7 | 28.8 | 7.9 7.9 | 7.9 | 21.5 22.0 | 21.7 | 76.1 75.8 | 76.0 | 5.4 5.4 | 5.4 | 5.3 | 1.7 1.6 | 1.7 | | 4.2 3.5 | 3.9 | |
| | | | | 10.8 | Middle | 5.4 | 28.1 28.2 | 28.1 | 7.9 7.9 | 7.9 | 25.0 25.4 | 25.2 | 75.1 75.4 | 75.3 | 5.2 5.3 | 5.2 | 3.3 | 1.7 1.8 | 1.8 | 1.8 | 4.3 4.6 | 4.5 | 3.9 |
| | | | | | Bottom | 9.8 | 28.1 28.0 | 28.1 | 7.9 7.8 | 7.8 | 27.5 27.1 | 27.3 | 74.6 74.3 | 74.5 | 5.1 5.2 | 5.2 | 5.2 | 1.9 1.9 | 1.9 | | 3.0 3.5 | 3.3 | |
| 29-Aug-16 | Sunny | Moderate | 10:19 | | Surface | 1.0 | 27.3 27.4 | 27.4 | 8.1 8.1 | 8.1 | 28.4 28.2 | 28.3 | 82.6 84.8 | 83.7 | 5.5 5.7 | 5.6 | 5.5 | 2.3 2.2 | 2.3 | | 8.5 8.8 | 8.7 | |
| | | | | 10.1 | Middle | 5.1 | 27.3 27.2 | 27.3 | 8.1 8.1 | 8.1 | 28.4 28.7 | 28.5 | 76.1 79.6 | 77.9 | 5.1 5.4 | 5.3 | 3.3 | 2.2 2.6 | 2.4 | 2.4 | 8.8 8.9 | 8.9 | 8.7 |
| | | | | | Bottom | 9.1 | 27.1 27.1 | 27.1 | 8.1 8.0 | 8.0 | 30.3 30.0 | 30.2 | 78.5 74.8 | 76.7 | 5.3 5.0 | 5.2 | 5.2 | 2.6 2.5 | 2.6 | | 9.3 7.6 | 8.5 | |
| 31-Aug-16 | Sunny | Moderate | 10:57 | | Surface | 1.0 | 27.5 27.6 | 27.5 | 8.0 8.0 | 8.0 | 30.0 29.9 | 30.0 | 75.9 75.8 | 75.9 | 5.2 5.2 | 5.2 | 5.2 | 4.6 4.7 | 4.7 | | 5.9 5.8 | 5.9 | |
| | | | | 10.8 | Middle | 5.4 | 27.4 27.3 | 27.4 | 8.0 8.0 | 8.0 | 30.2 30.3 | 30.3 | 75.5 75.4 | 75.5 | 5.1 5.1 | 5.1 | 5.2 | 4.8 4.8 | 4.8 | 4.8 | 6.9 5.8 | 6.4 | 6.5 |
| | | | | | Bottom | 9.8 | 27.4 27.3 | 27.4 | 8.0 8.1 | 8.1 | 30.2 30.4 | 30.3 | 74.9 74.7 | 74.8 | 5.1 5.1 | 5.1 | 5.1 | 5.0 4.9 | 5.0 | | 7.1 7.2 | 7.2 | |

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

DA: Depth-Averaged
 Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at CS6 - Mid-FloodTide

| Date | Weather | Sea | Sampling | Water | Sampl | ing | Tempera | ature (°C) | | Н | Salini | ty (ppt) | DO Satu | ration (%) | Dissol | ed Oxygen | (mg/L) | Т | urbidity(NT | U) | Suspe | nded Solids | (mg/L) |
|-----------|-----------|-------------|----------|-----------|---------|------|--------------|------------|------------|---------|--------------|----------|--------------|------------|------------|-----------|---------|------------|-------------|-----|--------------|-------------|----------|
| | Condition | Condition** | Time | Depth (m) | Depth | (m) | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | DA* | Value | Average | DA* | Value | Average | DA* |
| 1-Aug-16^ | Cloudy | Moderate | - | | Surface | | | - | - | - | - | - | 1 1 | - | - | | | - | - | | - | - | |
| | | | | - | Middle | - | - | - | - | - | - | - | - | - | - | - | - | - | - | = | - | - | <u> </u> |
| | | | | | Bottom | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | - | - | |
| 3-Aug-16 | Cloudy | Moderate | 05:30 | | Surface | 1.0 | 24.7 | 24.8 | 7.9 | 7.9 | 31.4 | 31.2 | 72.0 | 72.2 | 5.0 | 5.0 | | 4.7 | 4.8 | | 7.0 | 7.3 | |
| | | | | 10.1 | Middle | 5.1 | 24.9 24.7 | 24.7 | 7.9 7.9 | 7.9 | 31.0 31.6 | 31.7 | 72.3 71.9 | 71.9 | 5.0 5.0 | 5.0 | 5.0 | 4.8 5.1 | 5.1 | 5.0 | 7.6 8.3 | 8.6 | 8.1 |
| | | | | 10.1 | Bottom | 9.1 | 24.7 24.7 | 24.7 | 7.9 7.9 | 7.9 | 31.7 31.7 | 31.6 | 71.8 71.8 | 71.8 | 5.0 5.0 | 5.0 | 5.0 | 5.0 5.0 | 5.1 | 0.0 | 8.9 8.5 | 8.3 | 0 |
| 5-Aug-16 | Sunny | Moderate | 07:08 | | | | 24.7 25.4 | | 7.9 7.9 | | 31.5 28.9 | | 71.8 76.6 | | 5.0 5.4 | | 5.0 | 5.1 3.2 | | | 8.0 5.9 | | |
| o Aug 10 | Culliny | Woderate | 07.00 | | Surface | 1.0 | 25.7 25.4 | 25.5 | 7.9 7.9 | 7.9 | 27.5 29.0 | 28.2 | 76.2 75.4 | 76.4 | 5.4 5.4 | 5.4 | 5.4 | 3.3 | 3.3 | | 5.3 | 5.6 | |
| | | | | 11.3 | Middle | 5.7 | 25.0 | 25.2 | 7.9 | 7.9 | 29.8 | 29.4 | 75.2 | 75.3 | 5.4 | 5.4 | | 3.3 | 3.4 | 3.4 | 5.2 | 5.6 | 5.3 |
| | | | | | Bottom | 10.3 | 25.3 25.1 | 25.2 | 7.9 7.9 | 7.9 | 29.4 30.8 | 30.1 | 74.6 74.3 | 74.5 | 5.3 5.3 | 5.3 | 5.3 | 3.4 3.4 | 3.4 | | 4.8 4.7 | 4.8 | |
| 8-Aug-16 | Sunny | Moderate | 09:11 | | Surface | 1.0 | 27.8 27.9 | 27.8 | 8.0 8.0 | 8.0 | 22.4 22.2 | 22.3 | 74.9 75.9 | 75.4 | 5.2 5.2 | 5.2 | 5.2 | 2.1 2.0 | 2.1 | | 6.7 7.3 | 7.0 | |
| | | | | 10.4 | Middle | 5.2 | 27.4 27.5 | 27.4 | 8.0 8.0 | 8.0 | 24.1 23.8 | 24.0 | 74.3 74.6 | 74.5 | 5.2 5.2 | 5.2 | 5.2 | 2.3 2.2 | 2.3 | 2.3 | 6.3 5.7 | 6.0 | 6.3 |
| | | | | | Bottom | 9.4 | 27.2 27.3 | 27.2 | 8.0 8.0 | 8.0 | 25.5 25.0 | 25.3 | 73.5 73.2 | 73.4 | 5.1 5.1 | 5.1 | 5.1 | 2.4 | 2.4 | | 5.7 6.0 | 5.9 | |
| 10-Aug-16 | Rainy | Moderate | 10:57 | | Surface | 1.0 | 27.5 27.1 | 27.3 | 7.8 7.9 | 7.8 | 23.1 23.9 | 23.5 | 77.9 78.2 | 78.1 | 5.4 5.4 | 5.4 | | 1.4 1.4 | 1.4 | | 1.5 1.7 | 1.6 | |
| | | | | 10.5 | Middle | 5.3 | 27.1 | 26.9 | 7.8 | 7.8 | 24.1 | 25.0 | 76.1 | 76.6 | 5.3 | 5.3 | 5.4 | 1.6 | 1.6 | 1.6 | 2.6 | 2.7 | 2.7 |
| | | | | | Bottom | 9.5 | 26.7 26.7 | 26.7 | 7.8 7.9 | 7.8 | 25.9 28.3 | 27.8 | 77.1 75.5 | 75.7 | 5.3 5.3 | 5.3 | 5.3 | 1.5 1.7 | 1.7 | | 2.8 3.6 | 3.7 | |
| 12-Aug-16 | Fine | Moderate | 15:23 | | Surface | 1.0 | 26.8 26.9 | 27.0 | 7.8 7.9 | 7.9 | 27.3 20.2 | 20.6 | 75.8 79.6 | 82.1 | 5.3 5.7 | 5.8 | | 1.7 | 1.4 | | 3.7 | 3.6 | |
| | | | | 10.2 | | 5.1 | 27.1 26.1 | 26.2 | 7.9 7.9 | 7.9 | 21.0 25.5 | 24.3 | 84.5 81.2 | 80.4 | 5.9 5.7 | 5.7 | 5.8 | 1.4 1.5 | | 1.5 | 4.1 2.7 | | 3.1 |
| | | | | 10.2 | Middle | | 26.2 25.4 | | 7.9 7.8 | - | 23.2 29.4 | | 79.5 71.3 | | 5.7 5.1 | | | 1.4 1.5 | 1.5 | 1.5 | 3.5 2.3 | 3.1 | 3.1 |
| 15 Aug 16 | Cloudy | Madarata | 10:29 | | Bottom | 9.2 | 26.0 | 25.7 | 7.9 8.1 | 7.9 | 25.9 25.7 | 27.7 | 70.7 81.2 | 71.0 | 5.0 | 5.0 | 5.0 | 1.4 | 1.5 | l | 2.6 | 2.5 | |
| 15-Aug-16 | Cloudy | Moderate | 19:28 | | Surface | 1.0 | 26.4 | 26.6 | 8.1 | 8.1 | 26.2 | 25.9 | 81.6 | 81.4 | 5.6 5.7 | 5.6 | 5.6 | 3.1 | 3.2 | | 5.8 5.0 | 5.4 | |
| | | | | 11.0 | Middle | 5.5 | 26.3 26.1 | 26.2 | 8.1 8.0 | 8.0 | 26.1 28.3 | 27.2 | 79.9 79.6 | 79.8 | 5.6 5.5 | 5.6 | | 3.5 3.6 | 3.6 | 3.5 | 8.0 8.0 | 8.0 | 7.3 |
| | | | | | Bottom | 10.0 | 25.9 26.2 | 26.0 | 8.0 8.0 | 8.0 | 30.1 30.6 | 30.3 | 79.7 77.1 | 78.4 | 5.5 5.4 | 5.4 | 5.4 | 3.7 3.8 | 3.8 | | 8.8 8.3 | 8.6 | |
| 17-Aug-16 | Rainy | Moderate | 20:06 | | Surface | 1.0 | 26.0 25.9 | 25.9 | 8.1 8.1 | 8.1 | 28.7 28.9 | 28.8 | 78.4 80.0 | 79.2 | 5.5 5.6 | 5.5 | | 4.6 4.6 | 4.6 | | 5.4 5.4 | 5.4 | |
| | | | | 10.7 | Middle | 5.4 | 25.5 25.5 | 25.5 | 8.0 8.0 | 8.0 | 30.0 29.9 | 29.9 | 79.1 76.8 | 78.0 | 5.5 5.3 | 5.4 | 5.5 | 4.8 | 4.8 | 4.7 | 4.8 | 4.8 | 5.9 |
| | | | | | Bottom | 9.7 | 25.6 | 25.5 | 8.0 | 8.1 | 29.9 | 30.1 | 75.1 | 75.2 | 5.2 | 5.2 | 5.2 | 4.7 | 4.8 | | 7.7 | 7.5 | ĺ |
| 19-Aug-16 | Fine | Moderate | 06:11 | | Surface | 1.0 | 25.4 25.6 | 25.6 | 7.9 | 7.9 | 30.3 | 31.0 | 75.2 74.1 | 74.1 | 5.2 | 5.2 | | 5.1 | 5.2 | | 7.2 15.1 | 14.5 | |
| | | | | 10.6 | Middle | 5.3 | 25.6 25.6 | 25.6 | 7.9 7.9 | 7.9 | 31.0 31.1 | 31.1 | 74.1 73.5 | 73.6 | 5.2 5.2 | 5.2 | 5.2 | 5.2 5.3 | 5.3 | 5.3 | 13.9 14.2 | 14.7 | 14.5 |
| | | | | 10.0 | | | 25.6 25.6 | | 7.9 7.9 | | 31.0 31.1 | | 73.7 73.1 | | 5.2 5.1 | | <i></i> | 5.2 5.4 | | 5.5 | 15.1 14.6 | | 14.5 |
| | | | | | Bottom | 9.6 | 25.6 | 25.6 | 7.8 | 7.9 | 31.1 | 31.1 | 73.2 | 73.2 | 5.1 | 5.1 | 5.1 | 5.5 | 5.5 | | 13.7 | 14.2 | <u> </u> |

Remarks:

* DA: Depth-Averaged

** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at CS6 - Mid-FloodTide

| Date | Weather | Sea | Sampling | Water | Samp | ling | Tempera | ature (°C) | - | ЭΗ | Salini | ty (ppt) | DO Satu | ration (%) | Dissolv | ed Oxygen | (mg/L) | Т | urbidity(NT | J) | Suspe | nded Solids | s (mg/L) |
|-----------|-----------|-------------|----------|-----------|---------|------|--------------|------------|------------|---------|--------------|----------|--------------|------------|------------|-----------|--------|------------|-------------|-----|--------------|-------------|----------|
| | Condition | Condition** | Time | Depth (m) | Depth | (m) | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | DA* | Value | Average | DA* | Value | Average | DA* |
| 22-Aug-16 | Sunny | Moderate | 08:34 | | Surface | 1.0 | 27.9 27.8 | 27.9 | 7.8 7.9 | 7.8 | 22.4 22.7 | 22.5 | 73.7 73.8 | 73.8 | 5.1 5.1 | 5.1 | 5.1 | 2.9 2.7 | 2.8 | | 4.8 4.0 | 4.4 | |
| | | | | 10.3 | Middle | 5.2 | 27.7 27.9 | 27.8 | 7.9 7.8 | 7.9 | 23.1 22.4 | 22.7 | 73.4 73.5 | 73.5 | 5.1 5.1 | 5.1 | 0.1 | 2.9 3.1 | 3.0 | 3.0 | 4.8 5.8 | 5.3 | 4.8 |
| | | | | | Bottom | 9.3 | 27.6 27.8 | 27.7 | 7.9 7.9 | 7.9 | 24.5 22.6 | 23.5 | 73.1 73.2 | 73.2 | 5.1 5.1 | 5.1 | 5.1 | 3.2 3.3 | 3.3 | | 5.2 4.2 | 4.7 | |
| 24-Aug-16 | Sunny | Moderate | 10:47 | | Surface | 1.0 | 28.5 28.4 | 28.4 | 7.8 7.9 | 7.9 | 23.4 23.6 | 23.5 | 76.0 75.0 | 75.5 | 5.2 5.1 | 5.2 | 5.2 | 2.3 2.4 | 2.4 | | 3.8 3.5 | 3.7 | |
| | | | | 10.1 | Middle | 5.1 | 28.4 28.3 | 28.4 | 7.8 7.9 | 7.8 | 23.5 23.8 | 23.7 | 76.0 75.0 | 75.5 | 5.2 5.1 | 5.2 | 0.2 | 2.5 2.5 | 2.5 | 2.5 | 3.4 4.3 | 3.9 | 3.8 |
| | | | | | Bottom | 9.1 | 28.3 28.4 | 28.4 | 7.8 7.7 | 7.8 | 23.8 23.7 | 23.7 | 74.7 75.9 | 75.3 | 5.1 5.2 | 5.1 | 5.1 | 2.5 2.7 | 2.6 | | 4.2 3.5 | 3.9 | |
| 26-Aug-16 | Sunny | Moderate | 14:26 | | Surface | 1.0 | 29.5 29.6 | 29.6 | 8.0 8.0 | 8.0 | 19.7 19.8 | 19.8 | 86.8 85.4 | 86.1 | 5.9 5.8 | 5.9 | 5.9 | 2.3 2.4 | 2.4 | | 5.8 4.2 | 5.0 | |
| | | | | 11.0 | Middle | 5.5 | 29.0 29.0 | 29.0 | 7.9 8.0 | 7.9 | 22.1 21.9 | 22.0 | 85.2 85.8 | 85.5 | 5.8 5.8 | 5.8 | 3.9 | 2.5 2.5 | 2.5 | 2.5 | 5.6 5.5 | 5.6 | 5.2 |
| | | | | | Bottom | 10.0 | 29.1 29.0 | 29.0 | 7.9 7.9 | 7.9 | 22.3 22.4 | 22.4 | 84.2 84.0 | 84.1 | 5.7 5.7 | 5.7 | 5.7 | 2.5 2.5 | 2.5 | | 4.8 5.4 | 5.1 | |
| 29-Aug-16 | Sunny | Moderate | 18:13 | | Surface | 1.0 | 27.5 27.6 | 27.6 | 8.2 8.2 | 8.2 | 18.6 19.6 | 19.1 | 81.9 87.6 | 84.8 | 5.8 6.1 | 5.9 | 5.9 | 3.8 3.7 | 3.8 | | 8.6 8.7 | 8.7 | |
| | | | | 10.0 | Middle | 5.0 | 27.5 27.5 | 27.5 | 8.2 8.2 | 8.2 | 19.7 19.7 | 19.7 | 79.5 83.6 | 81.6 | 5.7 5.9 | 5.8 | 3.9 | 4.0 4.4 | 4.2 | 4.1 | 8.1 7.9 | 8.0 | 8.5 |
| | | | | | Bottom | 9.0 | 27.5 27.5 | 27.5 | 8.2 8.2 | 8.2 | 20.3 22.4 | 21.4 | 78.8 81.7 | 80.3 | 5.6 5.8 | 5.7 | 5.7 | 4.0 4.4 | 4.2 | | 9.1 8.2 | 8.7 | |
| 31-Aug-16 | Sunny | Moderate | 20:31 | | Surface | 1.0 | 27.6 27.6 | 27.6 | 8.1 8.1 | 8.1 | 27.3 28.9 | 28.1 | 79.1 79.4 | 79.3 | 5.3 5.3 | 5.3 | 5.3 | 6.7 6.8 | 6.8 | | 9.3 8.7 | 9.0 | |
| | | | | 10.9 | Middle | 5.5 | 27.5 27.5 | 27.5 | 8.1 8.1 | 8.1 | 29.9 27.8 | 28.8 | 78.8 78.6 | 78.7 | 5.3 5.3 | 5.3 | 5.5 | 6.9 6.9 | 6.9 | 7.0 | 9.3 8.7 | 9.0 | 10.5 |
| | | | | | Bottom | 9.9 | 27.4 27.4 | 27.4 | 8.1 8.1 | 8.1 | 28.8 30.2 | 29.5 | 77.7 78.3 | 78.0 | 5.2 5.2 | 5.2 | 5.2 | 7.1 7.2 | 7.2 | | 12.5 14.4 | 13.5 | |

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

[^] As Tropical Cyclone Warning Signal No.3 or above was hoisted, water quality monitoring (except the monitoring locations named CSA, CS6, SR10B(N) and SR10A during Mid-Ebb Tide) was stopped according to the Contingency Plan for Impact Monitoring.

^{*} DA: Depth-Averaged

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Appendix J - Marine Water Quality Monitoring Results

Water Quality Monitoring Results at CSA - Mid-EbbTide

| 1-Aug-16 | Solids (mg/L) | Suspended Soli | U) | urbidity(NT | Т | (mg/L) | ved Oxyger | Dissol | ration (%) | DO Satu | ty (ppt) | Salinit | Н | ŗ | ature (°C) | Temper | Sampling | Water | Sampling | Sea | Weather | Date |
|--|---------------|----------------|-----|-------------|-----|------------|------------|--------|------------|---------|----------|---------|---------|-------|------------|--------|-------------|-----------|----------|------------|---------|------------|
| Surface Moderate 15.08 M | rage DA* | Value Average | DA* | Average | | DA* | Average | Value | Average | Value | Average | Value | Average | Value | Average | Value | Depth (m) | Depth (m) | | | | |
| Moderate 15:30 Surface 17:71 26:4 26:4 6:1 6:1 27:5 28:2 96:7 96:4 66:6 6:6 6:6 0:7 23 2.3 2.4 75. 78. 77. 78. | .4 | | | 2.3 | | | 6.6 | | 97.3 | | 28.6 | | 8.1 | | 26.5 | | Surface 1.0 | | 10:51 | Moderate | Cloudy | 1-Aug-16 |
| Section Sect | .7 8.6 | 7.5 | 2.4 | 2.3 | 2.3 | 6.6 | 6.6 | 6.6 | 96.6 | 96.7 | 28.2 | 27.9 | 8.1 | 8.1 | 26.4 | 26.4 | Middle 17.7 | 35.4 | | | | |
| 3-Aug-16 Cloudy Moderate 13.53 | .8 | 9.4 | | 2.6 | 2.5 | 6.6 | 6.6 | 6.6 | 96.4 | 96.4 | 28.5 | 28.3 | 8.1 | 8.1 | 26.5 | 26.6 | Bottom 34.4 | | | | | |
| Surface 1.0 2.6 2.6 3.8 3.0 3.0 2.3 2.2 2.6 3.8 3.0 3.0 2.3 2.2 2.3 2.3 78.7 5.5 5.5 5.5 5.6 4.2 4.3 4.3 5.0 4.5 | | 6.0 | | | | | | | | | | | | | | | 1 | | 12.52 | Moderate | Cloudy | 2 Aug 16 |
| Second S | .5 | 4.9 | | 4.2 | 4.2 | 5.7 | 5.7 | 5.5 | 80.5 | 78.7 | 22.8 | 23.3 | 8.0 | 8.0 | 26.3 | 26.2 | Surface 1.0 | | 13.33 | ivioderate | Cloudy | 3-Aug-10 |
| S-Aug-16 Sunny Moderate 15:38 Sunny Moderate 17:11 Sund Moderate 16:36 Sunny Moderate 18:36 S | .9 5.3 | 4.8 | 4.3 | 4.3 | 4.4 | | 5.6 | 5.6 | 78.7 | 79.2 | 23.8 | 23.2 | 8.0 | 8.0 | 26.0 | 26.1 | Middle 18.0 | 36.0 | | | | |
| Surface 1.0 26.5 26.4 7.9 7.9 25.4 26.6 73.8 73.8 5.2 5.2 5.2 5.4 4.4 4.4 4.5 4.5 2.3 3.2 | .5 | 5.5 | | 4.4 | | 5.5 | 5.5 | | 77.8 | | 26.5 | | 8.0 | | 25.5 | | Bottom 35.0 | | | | | |
| Sample Moderate 17:11 Surface 10-Aug-16 Rainy Moderate 18:36 Middle 17:4 25.7 27.8 8.1 8.1 22.3 22.4 91.5 91.7 64. 6.4 6.4 6.4 12. 1.2 1.4 1.4 1.5 1 | .1 | | | 4.3 | | | 5.3 | | 74.5 | | 25.7 | | 7.9 | | 26.4 | | Surface 1.0 | | 15:38 | Moderate | Sunny | 5-Aug-16 |
| Bottom 34.8 26.0 7.9 7.9 7.9 28.2 28.1 73.4 73.3 5.1 5.1 5.1 4.6 4.7 3.2 3.3 | .2 3.9 | 2.3 | 4.5 | 4.4 | 4.4 | 5.3 | 5.2 | 5.2 | 73.8 | 73.8 | 26.6 | 26.9 | 7.9 | 7.9 | 25.9 | 25.7 | Middle 17.9 | 35.8 | | | | |
| 8-Aug-16 Sunny Moderate 17:11 | .3 | 3.4 | | 4.7 | 4.7 | 5.1 | 5.1 | 5.1 | 73.3 | 73.4 | 28.1 | 28.2 | 7.9 | 7.9 | 25.9 | 26.0 | Bottom 34.8 | | | | | |
| Note | | 5.4 | | | | | | | | | | | | 7.0 | | | <u> </u> | | 17:11 | Moderate | Sunny | 8-Aug-16 |
| 10-Aug-16 Rainy Moderate 18:36 Surface 10 27.8 27.7 27.6 8.1 8.1 22.3 23.3 91.2 91.5 91.5 91.5 91.7 64.4 64.4 64.4 1.2 1.2 1.2 1.4 1.4 1.4 1.4 1.5 1.5 1.6 1.6 1.5 1.6 1.5 1.6 1.5 1.5 1.6 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.6 1.5 | .5 | 5.6 | | 2.2 | 2.2 | 6.5 | 6.5 | 6.6 | 95.4 | 95.5 | 21.7 | 21.7 | 8.0 | 8.0 | 28.5 | 28.5 | Surface 1.0 | | | moderate | Carriy | 0 / lug 10 |
| 10-Aug-16 Rainy Moderate 18:36 Surface 1.0 27.8 27.9 27.8 8.1 8.1 22.3 22.0 92.0 92.3 6.4 6.4 6.4 1.1 1.1 1.1 1.0 0.9 0.8 | .9 5.9 | 4.0 | 2.3 | 2.3 | 2.3 | | 6.5 | 6.5 | 94.9 | 94.5 | 22.7 | 22.2 | 8.0 | 8.0 | 28.3 | 28.4 | Middle 17.6 | 35.2 | | | | |
| Surface 1.0 27.9 27.8 8.1 8.1 21.7 22.0 92.6 92.3 6.4 6.4 6.4 6.4 1.1 1.1 1.2 1.2 1.2 1.4 1.4 1.4 1.5 1.5 1.6 1.6 1.5 1.6 1.5 1.6 1.5 1.5 1.6 1.5 1.5 1.6 1.5 | .3 | | | 2.4 | | 6.4 | 6.4 | | 93.7 | | 23.6 | | 8.0 | | 28.2 | | Bottom 34.2 | | | | | |
| Sufface 1.0 27.7 27.8 27.7 8.1 8.1 22.5 22.4 91.5 91.7 6.4 6.4 6.4 1.2 1.2 1.2 1.2 1.4 1.4 1.4 1.5 | .8 | | | 1.1 | | 6.4 | 6.4 | | 92.3 | | 22.0 | | 8.1 | | 27.8 | | Surface 1.0 | | 18:36 | Moderate | Rainy | 10-Aug-16 |
| Bottom 34.2 27.7 27.6 8.1 8.0 8.1 22.5 24.0 23.3 91.2 90.8 6.3 6.3 6.3 6.3 1.3 1.3 1.3 1.4 1.5 | .4 1.2 | | 1.2 | 1.2 | | 0.4 | 6.4 | | 91.7 | | 22.4 | | 8.1 | | 27.7 | | Middle 17.6 | 35.2 | | | | |
| 12-Aug-16 | .5 | 1.4 | | 1.3 | 1.3 | 6.3 | 6.3 | 6.3 | 90.8 | 91.2 | 23.3 | 22.5 | 8.1 | 8.1 | 27.6 | 27.7 | Bottom 34.2 | | | | | |
| 36.1 Middle 18.1 25.7 25.8 7.3 7.5 29.9 29.6 77.7 78.9 5.6 5.5 5.0 1.0 1.1 1.0 3.0 3.6 3.3 3.6 3.3 3.3 3.3 3.3 3.3 3.3 3.3 | 0 | 2.0 | | 0.0 | | | 5.6 | | 01.2 | | 25.1 | | 7.7 | | 27.0 | | Surface 1.0 | | 07:16 | Moderate | Rainy | 12-Aug-16 |
| Surface 1.0 26.8 26.8 26.8 8.0 7.9 25.6 82.7 7.6 7.5 82.7 7.6 7.5 82.7 7.5 | | 2.9 | | | | 5.5 | | | | | | | | | | | | | | | | |
| Surface 1.0 25.7 25.7 7.3 7.4 30.3 30.3 75.8 75.7 5.2 | | 3.6 | 1.0 | | 1.1 | | | 5.5 | | 80.0 | | 29.2 | | 7.6 | | 25.9 | | 36.1 | | | | |
| 35.5 Middle 17.8 26.8 26.3 7.9 7.9 25.8 25.0 82.7 82.0 5.7 3.7 1.5 1.6 4.7 4.5 4.7 4.5 4.7 4.5 4.7 4.5 4.7 4.5 4.7 4.5 4.7 4.5 4.7 4.5 4.7 4.5 4.7 4.5 4.7 4.5 4.7 4.5 4.7 4.5 4.7 4.5 4.7 4.5 4.7 4.7 4.5 4.7 4.7 4.7 4.7 4.7 4.7 4.7 4.7 4.7 4.7 | .4 | 2.3 | | 1.1 | 1.1 | 5.2 | 5.2 | 5.2 | 75.7 | 75.8 | 30.3 | 30.3 | 7.4 | 7.3 | 25.7 | 25.7 | Bottom 35.1 | | | | | |
| 35.5 Middle 17.8 26.1 26.3 7.9 8.0 27.5 79.6 80.7 5.5 5.6 1.7 1.7 1.7 6.3 6.2 6.3 6.2 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 | .5 | | | 1.6 | | <i>5</i> 7 | 5.7 | | 82.6 | | 25.6 | | 7.9 | | 26.8 | | Surface 1.0 | | 09:15 | Moderate | Cloudy | 15-Aug-16 |
| Bottom 34.5 26.1 26.1 7.9 8.0 28.6 28.3 78.6 79.0 5.4 5.5 5.5 1.8 1.8 7.8 6.6 7.2 17-Aug-16 Rainy Moderate 11:13 Surface 1.0 25.7 25.8 7.8 7.9 29.3 29.0 79.1 77.4 5.5 5.4 4.4 4.5 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 | .3 6.0 | | 1.7 | 1.7 | | 5.7 | 5.6 | | 80.7 | | 27.5 | | 8.0 | | 26.3 | | Middle 17.8 | 35.5 | | | | |
| 17-Aug-16 Rainy Moderate 11:13 Surface 1 0 25.7 25.8 7.8 7.9 29.3 29.0 79.1 77.4 5.5 5.4 4.4 4.5 7.6 7.6 7.6 | .2 | 7.8 | | 1.8 | 1.8 | 5.5 | 5.5 | 5.4 | 79.0 | 78.6 | 28.3 | 28.6 | 8.0 | 7.9 | 26.1 | 26.1 | Bottom 34.5 | | | | | |
| | .6 | 7.6 | | 4.5 | 4.4 | | 5.4 | 5.5 | 77.4 | 79.1 | 29.0 | 29.3 | 7.9 | 7.8 | 25.8 | 25.7 | Surface 1.0 | | 11:13 | Moderate | Rainy | 17-Aug-16 |
| 25.8 7.9 28.8 75.7 5.3 4.5 7.5 | | 7.5 | 12 | | | 5.3 | | | | | | | | | | | | 25.2 | | | | |
| 24.8 7.8 33.0 77.0 5.4 4.2 6.5 | | 6.5 | 4.5 | | | | | | | | | | - | | | | | 33.2 | | | | |
| Bottom 34.2 24.8 24.8 7.8 7.8 33.3 33.2 75.8 73.6 5.3 5.1 5.1 4.1 4.3 9.0 8.8 | .δ | 9.0 | | | 4.1 | 5.1 | | 5.3 | | 75.8 | | 33.3 | | 7.8 | | 24.8 | | | 14:42 | Moderate | Eino | 10 Aug 16 |
| Sunace 1.0 26.7 26.8 8.0 6.0 26.8 26.3 75.5 75.5 5.2 5.2 4.3 4.3 7.5 7.5 7.5 | .2 | 7.5 | | 4.3 | 4.3 | 5.2 | 5.2 | 5.2 | 75.5 | 75.5 | 26.5 | 26.8 | 8.0 | 8.0 | 26.8 | 26.7 | Surface 1.0 | | 14.43 | Moderate | 1 1116 | 13-Aug-10 |
| 26.5 8.0 26.8 75.3 5.2 4.5 7.1 | .6 7.4 | 7.1 | 4.5 | 4.5 | 4.5 | | 5.2 | 5.2 | 75.2 | 75.3 | 27.0 | 26.8 | 8.0 | 8.0 | 26.6 | 26.5 | Middle 17.7 | 35.3 | | | | |
| Bottom 34.3 26.1 26.2 8.0 8.0 28.3 27.8 74.2 74.0 5.1 5.1 4.7 4.6 4.7 6.9 7.5 | .5 | | | 4.7 | | 5.1 | 5.1 | | 74.0 | | 27.8 | | 8.0 | | 26.2 | | Bottom 34.3 | | | | | |

Remarks:

* DA: Depth-Averaged

** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at CSA - Mid-EbbTide

| Date | Weather | Sea | Sampling | Water | Samp | ling | Tempera | ature (°C) | | ρΗ | Salini | ty (ppt) | DO Satu | ration (%) | Dissol | ed Oxygen | (mg/L) | Т | urbidity(NTl | J) | Suspe | nded Solids | s (mg/L) |
|-----------|-----------|-------------|----------|-----------|---------|------|--------------|------------|------------|---------|--------------|----------|--------------|------------|------------|-----------|--------|------------|--------------|-----|-------------|-------------|----------|
| | Condition | Condition** | Time | Depth (m) | Depth | (m) | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | DA* | Value | Average | DA* | Value | Average | DA* |
| 22-Aug-16 | Sunny | Moderate | 16:39 | | Surface | 1.0 | 28.4 28.7 | 28.5 | 8.0 8.0 | 8.0 | 23.5 23.3 | 23.4 | 79.0 79.6 | 79.3 | 5.4 5.4 | 5.4 | 5.4 | 2.5 2.6 | 2.6 | | 2.8 3.4 | 3.1 | |
| | | | | 35.3 | Middle | 17.7 | 28.2 28.0 | 28.1 | 8.0 8.0 | 8.0 | 24.0 25.0 | 24.5 | 78.3 78.7 | 78.5 | 5.4 5.4 | 5.4 | 5.4 | 2.7 2.6 | 2.7 | 2.7 | 3.4 4.8 | 4.1 | 4.3 |
| | | | | | Bottom | 34.3 | 28.2 28.4 | 28.3 | 7.9 8.0 | 7.9 | 25.9 26.1 | 26.0 | 77.4 77.9 | 77.7 | 5.3 5.3 | 5.3 | 5.3 | 2.9 2.8 | 2.9 | | 5.8 5.5 | 5.7 | |
| 24-Aug-16 | Sunny | Moderate | 17:29 | | Surface | 1.0 | 28.4 29.3 | 28.8 | 8.1 8.1 | 8.1 | 15.6 16.2 | 15.9 | 79.4 84.7 | 82.1 | 5.6 5.9 | 5.8 | 5.7 | 2.3 2.3 | 2.3 | | 0.5 0.7 | 0.6 | |
| | | | | 36.1 | Middle | 18.1 | 28.5 28.1 | 28.3 | 8.1 8.1 | 8.1 | 17.3 17.5 | 17.4 | 78.5 78.3 | 78.4 | 5.5 5.6 | 5.6 | 0.7 | 2.3 2.4 | 2.4 | 2.4 | 1.6 1.3 | 1.5 | 1.3 |
| | | | | | Bottom | 35.1 | 28.2 28.2 | 28.2 | 8.1 8.0 | 8.1 | 17.6 20.0 | 18.8 | 77.7 76.6 | 77.2 | 5.5 5.4 | 5.4 | 5.4 | 2.5 2.5 | 2.5 | | 1.9 1.7 | 1.8 | |
| 26-Aug-16 | Sunny | Moderate | 05:45 | | Surface | 1.0 | 28.4 28.5 | 28.4 | 7.9 7.9 | 7.9 | 22.8 21.7 | 22.3 | 75.9 75.3 | 75.6 | 5.3 5.3 | 5.3 | 5.3 | 1.3 1.2 | 1.3 | | 3.2 3.4 | 3.3 | |
| | | | | 35.3 | Middle | 17.7 | 28.1 27.9 | 28.0 | 7.8 7.8 | 7.8 | 26.5 27.2 | 26.8 | 74.9 74.7 | 74.8 | 5.2 5.1 | 5.2 | 5.5 | 1.3 1.4 | 1.4 | 1.4 | 4.7 3.6 | 4.2 | 4.2 |
| | | | | | Bottom | 34.3 | 27.6 28.4 | 28.0 | 7.7 7.8 | 7.8 | 28.9 27.2 | 28.0 | 73.6 73.8 | 73.7 | 5.1 5.1 | 5.1 | 5.1 | 1.5 1.5 | 1.5 | | 6.1 4.3 | 5.2 | |
| 29-Aug-16 | Sunny | Moderate | 09:57 | | Surface | 1.0 | 27.3 27.4 | 27.4 | 8.0 7.9 | 7.9 | 28.3 28.2 | 28.3 | 77.7 87.7 | 82.7 | 5.2 5.9 | 5.6 | 5.5 | 2.2 2.1 | 2.2 | | 5.9 5.7 | 5.8 | |
| | | | | 36.1 | Middle | 18.1 | 27.4 27.1 | 27.3 | 7.8 7.9 | 7.9 | 28.3 28.5 | 28.4 | 82.6 77.3 | 80.0 | 5.6 5.2 | 5.4 | 5.5 | 2.2 2.4 | 2.3 | 2.3 | 5.2 5.5 | 5.4 | 5.8 |
| | | | | | Bottom | 35.1 | 27.1 27.1 | 27.1 | 7.6 7.9 | 7.8 | 30.0 30.3 | 30.1 | 79.1 75.7 | 77.4 | 5.3 5.1 | 5.2 | 5.2 | 2.4 2.6 | 2.5 | | 5.8 6.7 | 6.3 | |
| 31-Aug-16 | Sunny | Moderate | 10:45 | | Surface | 1.0 | 27.3 27.3 | 27.3 | 8.1 8.1 | 8.1 | 30.3 30.3 | 30.3 | 77.8 77.8 | 77.8 | 5.2 5.2 | 5.2 | 5.2 | 3.6 3.7 | 3.7 | _ | 5.8 4.5 | 5.2 | |
| | | | | 35.3 | Middle | 17.7 | 27.2 27.3 | 27.3 | 8.1 8.1 | 8.1 | 30.5 30.4 | 30.5 | 77.2 77.5 | 77.4 | 5.2 5.2 | 5.2 | J.Z | 3.7 3.8 | 3.8 | 3.8 | 9.3 7.5 | 8.4 | 7.7 |
| | | | | | Bottom | 34.3 | 27.5 27.1 | 27.3 | 8.1 8.0 | 8.1 | 30.1 30.8 | 30.4 | 76.9 76.6 | 76.8 | 5.2 5.1 | 5.1 | 5.1 | 3.9 3.9 | 3.9 | | 8.6 10.3 | 9.5 | |

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

^{*} DA: Depth-Averaged

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at CSA - Mid-FloodTide

| Date | Weather | Sea | Sampling | Water | Sampli | ing | Tempera | ature (°C) | ŗ | Н | Salini | ty (ppt) | DO Satu | ration (%) | Dissol | ved Oxygen | (mg/L) | T | urbidity(NT | U) | Suspe | nded Solids | (mg/L) د |
|------------|-----------|-------------|----------|-----------|---------|------|--------------|------------|------------|---------|--------------|----------|--------------|------------|------------|------------|--------|------------|-------------|----------|--------------|-------------|----------|
| | Condition | Condition** | Time | Depth (m) | Depth (| (m) | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | DA* | Value | Average | DA* | Value | Average | DA* |
| 1-Aug-16^ | Cloudy | Moderate | - | | Surface | - | - | - | - | - | - | - | - | - | - | - | | - | - | | - | - | |
| | | | | - | Middle | - | - | - | - | - | - | - | - | - | - | - | - | - | - | <u> </u> | - | - | 1 = |
| | | | | | Bottom | - | - | - | - | - | - | - | - | - | - | - | - | - | _ | | - | - | |
| 3-Aug-16 | Cloudy | Moderate | 05:12 | | 0 / | | 24.9 | 0.1.0 | 7.9 | | 31.0 | 24.0 | 80.6 | | 5.6 | | | 4.4 | | | 5.4 | | |
| 0 / tag 10 | Cicacy | Moderate | 00.12 | | Surface | 1.0 | 24.9 | 24.9 | 7.9 7.9 | 7.9 | 31.0 31.6 | 31.0 | 74.2 73.8 | 77.4 | 5.2 5.1 | 5.4 | 5.4 | 4.1 | 4.3 | | 5.1 | 5.3 | <u> </u> |
| | | | | 36.1 | Middle | 18.1 | 24.7 | 24.7 | 7.8 7.9 | 7.9 | 31.7 31.7 | 31.7 | 78.6 73.7 | 76.2 | 5.5 5.1 | 5.3 | | 5.0 | 4.9 | 4.7 | 6.6 | 6.7 | 7.4 |
| | | | | | Bottom | 35.1 | 24.7 | 24.7 | 7.8 | 7.9 | 31.7 | 31.7 | 76.4 | 75.1 | 5.3 | 5.2 | 5.2 | 5.0 | 4.9 | | 10.1 | 10.2 | |
| 5-Aug-16 | Sunny | Moderate | 06:56 | | Surface | 1.0 | 25.7 25.7 | 25.7 | 7.9 7.9 | 7.9 | 27.7 27.4 | 27.5 | 74.3 74.5 | 74.4 | 5.3 5.3 | 5.3 | 5.3 | 2.8 2.9 | 2.9 | | 3.9 3.3 | 3.6 | |
| | | | | 35.9 | Middle | 18.0 | 25.1 25.3 | 25.2 | 7.8 7.9 | 7.8 | 29.6 29.0 | 29.3 | 73.5 73.8 | 73.7 | 5.3 5.3 | 5.3 | 5.3 | 2.9 3.0 | 3.0 | 3.0 | 4.2 4.8 | 4.5 | 4.7 |
| | | | | | Bottom | 34.9 | 24.9 | 24.8 | 7.8 | 7.8 | 31.5 | 31.6 | 73.1 | 73.0 | 5.2 | 5.2 | 5.2 | 3.2 | 3.2 | | 6.5 | 5.9 | , |
| 8-Aug-16 | Sunny | Moderate | 08:59 | | Surface | 1.0 | 24.6 27.8 | 27.8 | 7.9 8.0 | 8.0 | 31.6 22.3 | 22.2 | 72.8 75.9 | 75.7 | 5.2 5.2 | 5.2 | | 3.2 2.2 | 2.3 | | 5.3 2.6 | 3.5 | |
| | | | | | | | 27.7 27.2 | | 8.0 8.0 | | 22.1 25.0 | | 75.5 74.3 | - | 5.2 5.2 | | 5.2 | 2.3 | | | 4.3 4.5 | | |
| | | | | 35.2 | Middle | 17.6 | 27.2 27.4 | 27.2 | 8.0 8.0 | 8.0 | 24.9 25.5 | 25.0 | 73.8 73.5 | 74.1 | 5.2 5.1 | 5.2 | | 2.4 2.5 | 2.4 | 2.4 | 4.7 8.7 | 4.6 | 5.3 |
| | | | | | Bottom | 34.2 | 27.1 | 27.2 | 8.0 | 8.0 | 25.6 | 25.5 | 73.8 | 73.7 | 5.1 | 5.1 | 5.1 | 2.6 | 2.6 | | 7.0 | 7.9 | <u> </u> |
| 10-Aug-16 | Rainy | Moderate | 10:47 | | Surface | 1.0 | 27.1 27.2 | 27.1 | 7.7 7.8 | 7.8 | 24.3 23.4 | 23.9 | 76.5 76.2 | 76.4 | 5.3 5.3 | 5.3 | 5.3 | 1.1 1.1 | 1.1 | | 2.7 3.0 | 2.9 | |
| | | | | 35.3 | Middle | 17.7 | 26.7 26.4 | 26.6 | 7.9 7.7 | 7.8 | 26.4 27.3 | 26.9 | 75.9 75.4 | 75.7 | 5.3 5.3 | 5.3 | 0.0 | 1.3 1.2 | 1.3 | 1.3 | 2.3 2.6 | 2.5 | 2.6 |
| | | | | | Bottom | 34.3 | 26.6 26.1 | 26.4 | 7.9 7.8 | 7.8 | 29.5 29.8 | 29.6 | 74.7 74.2 | 74.5 | 5.1 5.2 | 5.2 | 5.2 | 1.4 1.4 | 1.4 | | 2.5 2.4 | 2.5 | |
| 12-Aug-16 | Fine | Moderate | 15:44 | | Surface | 1.0 | 26.8 | 26.9 | 8.0 | 8.0 | 20.2 | 19.8 | 84.9 | 84.6 | 6.0 | 6.0 | | 1.3 | 1.3 | | 3.0 | 2.9 | |
| | | | | 36.1 | Middle | 18.1 | 26.9 26.1 | 26.1 | 8.0 7.9 | 7.9 | 19.5 22.5 | 22.3 | 84.2 83.0 | 83.8 | 6.0 5.9 | 5.9 | 6.0 | 1.3 | 1.4 | 1.4 | 2.8 | 2.6 | 2.8 |
| | | | | 00.1 | Bottom | 35.1 | 26.1 25.5 | 25.5 | 7.9 7.9 | 7.9 | 22.2 25.6 | 25.3 | 84.6 79.0 | 80.5 | 6.0 5.6 | 5.7 | 5.7 | 1.3 1.4 | 1.4 | | 2.6 3.0 | 2.9 | . 2.0 |
| 45 Aug 40 | Ola di . | Madazata | 10.20 | | Bottom | 33.1 | 25.6 26.8 | | 7.9 | 7.5 | 24.9 25.7 | 23.3 | 82.0 86.2 | 60.5 | 5.8 5.9 | 5.7 | 3.1 | 1.4 2.4 | 1.4 | 1 | 2.7 6.1 | 2.5 | |
| 15-Aug-16 | Cloudy | Moderate | 19:39 | | Surface | 1.0 | 26.7 | 26.8 | 8.1 8.1 | 8.1 | 25.8 | 25.7 | 86.4 | 86.3 | 5.9 | 5.9 | 5.9 | 2.5 | 2.5 | | 6.4 | 6.3 | |
| | | | | 35.7 | Middle | 17.9 | 26.0 26.7 | 26.4 | 8.1 8.1 | 8.1 | 27.5 25.8 | 26.6 | 84.9 84.5 | 84.7 | 5.8 5.8 | 5.8 | | 2.8 2.7 | 2.8 | 2.8 | 5.7 5.4 | 5.6 | 6.0 |
| | | | | | Bottom | 34.7 | 25.5 26.5 | 26.0 | 8.1 8.1 | 8.1 | 30.6 26.8 | 28.7 | 80.8 78.3 | 79.6 | 5.6 5.4 | 5.5 | 5.5 | 3.0 3.1 | 3.1 | | 6.5 5.5 | 6.0 | |
| 17-Aug-16 | Rainy | Moderate | 20:18 | | Surface | 1.0 | 26.0 25.9 | 26.0 | 8.1 8.1 | 8.1 | 28.5 28.0 | 28.2 | 78.6 74.1 | 76.4 | 5.5 5.2 | 5.3 | | 4.3 4.3 | 4.3 | | 4.7 6.0 | 5.4 | |
| | | | | 35.4 | Middle | 17.7 | 25.3 | 25.3 | 8.0 | 8.0 | 30.2 | 30.7 | 72.6 | 72.5 | 5.1 | 5.0 | 5.2 | 5.2 | 5.4 | 5.1 | 5.1 | 5.4 | 5.5 |
| | | | | | Bottom | 34.4 | 25.2 25.1 | 25.2 | 8.0 8.0 | 8.0 | 31.1 31.6 | 31.3 | 72.4 70.4 | 70.4 | 5.0 4.9 | 4.9 | 4.9 | 5.5 5.5 | 5.5 | 1 | 5.7 5.8 | 5.6 | ' |
| 19-Aug-16 | Fine | Moderate | 06:01 | | | 1.0 | 25.2 25.6 | | 8.0 7.9 | | 31.0 31.0 | | 70.4 74.1 | | 4.9 5.2 | | 7.0 | 5.5 4.8 | | | 5.3 9.2 | | |
| | | | | | Surface | | 25.6 25.6 | 25.6 | 7.9 7.8 | 7.9 | 31.0 31.0 | 31.0 | 73.8 73.5 | 74.0 | 5.2 5.2 | 5.2 | 5.2 | 4.8 5.0 | 4.8 | | 10.3 11.8 | 9.8 | ا ا ا |
| | | | | 35.4 | Middle | 17.7 | 25.6 | 25.6 | 7.9 | 7.9 | 31.1 | 31.0 | 73.8 | 73.7 | 5.2 | 5.2 | | 5.1 | 5.1 | 5.1 | 12.7 | 12.3 | 12.1 |
| | | | | | Bottom | 34.4 | 25.6 25.6 | 25.6 | 7.8 7.9 | 7.8 | 31.1 31.1 | 31.1 | 72.7 72.8 | 72.8 | 5.1 5.1 | 5.1 | 5.1 | 5.2 5.3 | 5.3 | | 14.9 | 14.3 | |

Remarks:

* DA: Depth-Averaged

** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at CSA - Mid-FloodTide

| Date | Weather | Sea | Sampling | Water | Samp | ling | Tempera | ature (°C) | | ρΗ | Salini | ty (ppt) | DO Satu | ration (%) | Dissol | ed Oxygen | (mg/L) | Т | urbidity(NT | J) | Suspe | nded Solids | (mg/L) د |
|-----------|-----------|-------------|----------|-----------|---------|------|--------------|------------|------------|---------|--------------|----------|--------------|------------|------------|-----------|--------|------------|-------------|-----|--------------|-------------|----------|
| | Condition | Condition** | Time | Depth (m) | Depth | (m) | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | DA* | Value | Average | DA* | Value | Average | DA* |
| 22-Aug-16 | Sunny | Moderate | 08:23 | | Surface | 1.0 | 27.9 27.8 | 27.9 | 7.9 7.9 | 7.9 | 22.2 22.5 | 22.4 | 73.7 73.5 | 73.6 | 5.1 5.1 | 5.1 | 5.1 | 2.9 2.9 | 2.9 | | 5.3 5.4 | 5.4 | |
| | | | | 35.4 | Middle | 17.7 | 27.9 27.8 | 27.9 | 7.9 7.9 | 7.9 | 22.2 22.9 | 22.6 | 73.4 73.4 | 73.4 | 5.1 5.1 | 5.1 | 0.1 | 3.1 3.0 | 3.1 | 3.1 | 4.8 4.6 | 4.7 | 5.2 |
| | | | | | Bottom | 34.4 | 27.9 27.9 | 27.9 | 7.8 7.9 | 7.9 | 22.2 22.6 | 22.4 | 73.5 73.3 | 73.4 | 5.1 5.1 | 5.1 | 5.1 | 3.4 3.3 | 3.4 | | 5.5 5.2 | 5.4 | |
| 24-Aug-16 | Sunny | Moderate | 10:32 | | Surface | 1.0 | 28.5 28.5 | 28.5 | 7.6 7.7 | 7.7 | 23.3 23.3 | 23.3 | 79.1 76.7 | 77.9 | 5.4 5.2 | 5.3 | 5.3 | 2.3 2.4 | 2.4 | | 3.6 4.6 | 4.1 | |
| | | | | 36.2 | Middle | 18.1 | 28.4 28.4 | 28.4 | 7.7 7.6 | 7.6 | 23.6 23.5 | 23.6 | 76.7 78.3 | 77.5 | 5.2 5.3 | 5.3 | 0.0 | 2.4 2.5 | 2.5 | 2.5 | 3.1 3.2 | 3.2 | 3.6 |
| | | | | | Bottom | 35.2 | 28.4 28.4 | 28.4 | 7.6 7.5 | 7.6 | 23.7 23.6 | 23.6 | 76.4 77.9 | 77.2 | 5.2 5.3 | 5.3 | 5.3 | 2.4 2.5 | 2.5 | | 3.5 3.6 | 3.6 | |
| 26-Aug-16 | Sunny | Moderate | 14:41 | | Surface | 1.0 | 29.4 29.5 | 29.5 | 8.1 8.0 | 8.1 | 18.8 19.2 | 19.0 | 84.7 84.7 | 84.7 | 5.8 5.8 | 5.8 | 5.8 | 2.4 2.5 | 2.5 | | 5.5 5.4 | 5.5 | |
| | | | | 35.4 | Middle | 17.7 | 29.0 29.1 | 29.0 | 8.0 8.0 | 8.0 | 20.9 21.4 | 21.2 | 85.0 85.1 | 85.1 | 5.8 5.8 | 5.8 | 3.0 | 2.5 2.5 | 2.5 | 2.5 | 6.3 4.9 | 5.6 | 5.6 |
| | | | | | Bottom | 34.4 | 29.1 29.0 | 29.1 | 8.0 8.0 | 8.0 | 22.0 22.0 | 22.0 | 83.7 82.2 | 83.0 | 5.7 5.6 | 5.7 | 5.7 | 2.6 2.6 | 2.6 | | 5.0 6.2 | 5.6 | ļ |
| 29-Aug-16 | Sunny | Moderate | 18:35 | | Surface | 1.0 | 27.6 27.5 | 27.5 | 8.2 8.2 | 8.2 | 18.8 17.2 | 18.0 | 77.9 77.6 | 77.8 | 5.5 5.5 | 5.5 | 5.4 | 3.7 3.8 | 3.8 | | 6.2 5.4 | 5.8 | |
| | | | | 36.0 | Middle | 18.0 | 27.5 27.5 | 27.5 | 8.2 8.2 | 8.2 | 20.2 19.4 | 19.8 | 75.5 73.9 | 74.7 | 5.4 5.3 | 5.3 | 3.4 | 4.1 4.3 | 4.2 | 4.1 | 6.5 7.5 | 7.0 | 7.0 |
| | | | | | Bottom | 35.0 | 27.4 27.5 | 27.5 | 8.2 8.2 | 8.2 | 19.4 20.2 | 19.8 | 71.9 75.5 | 73.7 | 5.1 5.3 | 5.2 | 5.2 | 4.5 4.2 | 4.4 | | 7.4 8.9 | 8.2 | |
| 31-Aug-16 | Sunny | Moderate | 20:44 | | Surface | 1.0 | 27.4 27.6 | 27.5 | 8.1 8.1 | 8.1 | 26.6 25.4 | 26.0 | 76.7 76.9 | 76.8 | 5.2 5.2 | 5.2 | 5.2 | 6.4 6.5 | 6.5 | | 9.1 8.1 | 8.6 | |
| | | | | 35.4 | Middle | 17.7 | 27.5 27.6 | 27.5 | 8.1 8.1 | 8.1 | 26.0 26.4 | 26.2 | 76.1 76.2 | 76.2 | 5.2 5.2 | 5.2 | 5.2 | 6.7 6.6 | 6.7 | 6.7 | 11.2 9.9 | 10.6 | 10.8 |
| | | | | | Bottom | 34.4 | 27.4 27.4 | 27.4 | 8.1 8.1 | 8.1 | 27.0 26.3 | 26.6 | 75.8 75.2 | 75.5 | 5.2 5.1 | 5.1 | 5.1 | 6.9 6.9 | 6.9 | | 13.5 12.6 | 13.1 | |

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

[^] As Tropical Cyclone Warning Signal No.3 or above was hoisted, water quality monitoring (except the monitoring locations named CSA, CS6, SR10B(N) and SR10A during Mid-Ebb Tide) was stopped according to the Contingency Plan for Impact Monitoring.

^{*} DA: Depth-Averaged

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at IS(Mf)6 - Mid-EbbTide

| Date | Weather | Sea | Sampling | Water | Samp | ling | Temper | ature (°C) | | Н | Salini | ty (ppt) | DO Satu | ration (%) | Dissol | ved Oxygen | (mg/L) | Т | urbidity(NT | J) | Suspe | nded Solids | s (mg/L) |
|-----------|-----------|-------------|----------|-----------|----------|------|--------------|------------|------------|---------|--------------|----------|---------------|------------|------------|------------|--------|--------------|-------------|----------|--------------|-------------|-------------|
| | Condition | Condition** | Time | Depth (m) | Depth | (m) | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | DA* | Value | Average | DA* | Value | Average | DA* |
| 1-Aug-16^ | Cloudy | Moderate | - | | Surface | - | - | - | - | - | - | - | - | - | - | - | | - | - | | - | - | |
| | | | | - | Middle | - | - | - | - | - | - | - | - | - | - | - | - | - | - | <u>-</u> | - | - | <u> </u> |
| | | | | | Bottom | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | - | - | |
| 3-Aug-16 | Cloudy | Moderate | 12:18 | | Surface | 1.0 | 26.1 26.1 | 26.1 | 8.1 8.1 | 8.1 | 26.3 26.5 | 26.4 | 81.1 83.6 | 82.4 | 5.7 5.8 | 5.7 | | 10.5 10.1 | 10.3 | | 11.8 12.3 | 12.1 | |
| | | | | 3.2 | Middle | - | - | - | - | - | - | - | - | - | - | - | 5.7 | - | - | 10.3 | - | - | 11.7 |
| | | | | | Bottom | 2.2 | 26.1 26.1 | 26.1 | 8.1 | 8.1 | 26.7 26.5 | 26.6 | 87.3 82.2 | 84.8 | 6.1 5.7 | 5.9 | 5.9 | 10.2 10.4 | 10.3 | | 11.6 10.7 | 11.2 | 1 |
| 5-Aug-16 | Sunny | Moderate | 13:26 | | Surface | 1.0 | 27.5 | 27.4 | 8.3 | 8.3 | 23.1 | 23.3 | 80.0 | 79.0 | 5.5 | 5.4 | | 9.5 | 9.4 | | 8.0 | 8.2 | |
| | | | | 3.4 | Middle | _ | 27.3 | - | 8.3 | - | 23.4 | _ | 77.9 | - | 5.4 | - | 5.4 | 9.3 | - | 9.4 | 8.4 | - | 9.3 |
| | | | | | Bottom | 2.4 | 27.0 | 27.0 | 8.3 | 8.3 | 23.6 | 23.7 | 81.2 | 79.6 | 5.6 | 5.5 | 5.5 | 9.2 | 9.3 | | 10.7 | 10.4 | 1 |
| 8-Aug-16 | Sunny | Moderate | 15:28 | | Surface | 1.0 | 27.0 | 29.0 | 8.3 8.1 | 8.1 | 23.7 19.9 | 19.8 | 78.0 112.4 | 112.6 | 7.8 | 7.8 | | 6.8 | 6.8 | | 9.0 | 10.2 | |
| | | | | 3.2 | Middle | _ | 29.1 | - | 8.1 | - | 19.6 - | - | 112.8 | - | 7.8 | _ | 7.8 | 6.7 | _ | 6.8 | 11.4 | - | 9.7 |
| | | | | | Bottom | 2.2 | 29.0 | 28.8 | 8.1 | 8.1 | 20.0 | 20.2 | 111.2 | 111.4 | 7.7 | 7.7 | 7.7 | 6.8 | 6.8 | | 9.3 | 9.1 | 1 |
| 10-Aug-16 | Rainy | Moderate | 16:40 | | Surface | 1.0 | 28.7 | 28.1 | 8.4 | 8.4 | 20.5 | 20.4 | 92.7 | 92.6 | 7.7 6.5 | 6.5 | | 3.8 | 3.8 | | 3.7 | 4.0 | |
| | | | | 3.2 | Middle | _ | 28.1 | - | 8.4 | - | 20.4 | - | 92.4 | - | 6.4 | _ | 6.5 | 3.7 | _ | 3.8 | 4.2 | - | 3.8 |
| | | | | | Bottom | 2.2 | 28.1 | 28.1 | 8.4 | 8.4 | 21.1 | 21.2 | 92.6 | 92.9 | 6.4 | 6.5 | 6.5 | 3.8 | 3.8 | | 3.5 | 3.5 | 1 |
| 12-Aug-16 | Rainy | Moderate | 09:04 | | Surface | 1.0 | 28.0 27.1 | 26.8 | 8.4 8.2 | 8.2 | 21.3 22.4 | 22.6 | 93.1 74.9 | 74.6 | 6.5 5.2 | 5.2 | | 3.8 5.4 | 5.5 | | 3.5 2.6 | 3.0 | |
| | | | | 3.1 | Middle | - | 26.5 | - | 8.2 | - | 22.8 | - | 74.3 | - | 5.2 | - | 5.2 | 5.6 | - | 5.6 | 3.4 | - | 2.8 |
| | | | | | Bottom | 2.1 | 26.0 | 26.2 | 8.2 | 8.2 | 25.8 | 25.8 | 73.4 | 73.3 | 5.2 | 5.1 | 5.1 | 5.6 | 5.6 | | 2.4 | 2.6 | 1 |
| 15-Aug-16 | Cloudy | Moderate | 12:02 | | Surface | 1.0 | 26.5 26.9 | 26.9 | 8.2 | 8.3 | 25.7 | 23.6 | 73.2 76.6 | 76.6 | 5.1 5.4 | 5.4 | | 5.6 4.6 | 4.7 | | 4.9 | 4.8 | |
| | | | | 3.2 | Middle | _ | 26.9 | - | 8.3 | - | 23.6 | - | 76.5 - | - | 5.4 | _ | 5.4 | 4.8 | _ | 4.8 | 4.7 | - | 5.8 |
| | | | | | Bottom | 2.2 | 26.9 | 26.8 | 8.3 | 8.3 | 24.6 | 24.7 | 76.6 | 77.4 | 5.3 | 5.4 | 5.4 | 4.8 | 4.8 | | 7.3 | 6.8 | 1 |
| 17-Aug-16 | Rainy | Moderate | 13:07 | | Surface | 1.0 | 26.7 26.4 | 26.3 | 8.3 8.3 | 8.3 | 24.8 25.8 | 26.0 | 78.2 75.6 | 75.4 | 5.5 5.2 | 5.2 | | 4.8 5.3 | 5.3 | | 6.3 10.8 | 10.7 | |
| | | | | 3.2 | Middle | - | 26.3 | - | 8.3 | - | 26.3 | - | 75.2 - | - | 5.2 | - | 5.2 | 5.2 | - | 5.5 | 10.6 | - | 10.7 |
| | | | | | Bottom | 2.2 | 26.3 | 26.3 | 8.3 | 8.3 | 25.8 | 26.0 | 74.9 | 74.6 | 5.2 | 5.2 | 5.2 | 5.5 | 5.6 | | 10.3 | 10.6 | 1 |
| 19-Aug-16 | Fine | Moderate | 12:38 | | Surface | 1.0 | 26.3 26.5 | 26.5 | 8.3 | 8.3 | 26.2 | 27.2 | 74.3 82.7 | 81.2 | 5.2 | 5.6 | | 5.6 9.6 | 9.5 | | 8.8 | 9.4 | <u> </u> |
| | | | | 3.2 | Middle | - | 26.5 | - | 8.3 | - | 27.1 | - | 79.7 | - | 5.5 - | - | 5.6 | 9.4 | - | 9.5 | 10.0 | - | 10.5 |
| | | | | J.2 | Bottom | 2.2 | 26.4 | 26.4 | 8.3 | 8.3 | 27.2 | 27.2 | 80.5 | 79.8 | 5.6 | 5.5 | 5.5 | 9.5 | 9.5 | 0.0 | 11.4 | 11.6 | |
| | | | | | Dolloill | ۷.۷ | 26.5 | 20.7 | 8.3 | 0.0 | 27.2 | 21.2 | 79.0 | 10.0 | 5.5 | 5.5 | 5.5 | 9.5 | 3.5 | | 11.8 | 11.0 | |

Remarks:

* DA: Depth-Averaged

** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at IS(Mf)6 - Mid-EbbTide

| Date | Weather | Sea | Sampling | Water | Samp | ling | Temper | ature (°C) | | Н | Salini | ty (ppt) | DO Satu | ration (%) | Dissol | ved Oxygen | (mg/L) | 1 | urbidity(NT | U) | Suspe | nded Solids | s (mg/L) |
|-----------|-----------|-------------|----------|-----------|---------|------|--------------|------------|------------|---------|--------------|----------|----------------|------------|------------|------------|--------|--------------|-------------|------|--------------|-------------|----------|
| | Condition | Condition** | Time | Depth (m) | Depth | (m) | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | DA* | Value | Average | DA* | Value | Average | DA* |
| 22-Aug-16 | Sunny | Moderate | 14:08 | | Surface | 1.0 | 28.9 28.8 | 28.9 | 8.2 8.2 | 8.2 | 20.4 20.6 | 20.5 | 80.5 81.9 | 81.2 | 5.6 5.6 | 5.6 | 5.6 | 3.8 3.7 | 3.8 | | 4.9 5.2 | 5.1 | |
| | | | | 3.3 | Middle | - | - | - | - | - | - | - | - | - | - | - | 0.0 | - | - | 3.9 | - | - | 5.0 |
| | | | | | Bottom | 2.3 | 28.7 28.8 | 28.7 | 8.3 8.2 | 8.3 | 20.9 20.8 | 20.9 | 81.1 80.6 | 80.9 | 5.6 5.6 | 5.6 | 5.6 | 3.8 3.9 | 3.9 | | 4.1 5.5 | 4.8 | |
| 24-Aug-16 | Sunny | Moderate | 16:14 | | Surface | 1.0 | 30.0 29.9 | 30.0 | 8.4 8.4 | 8.4 | 21.6 21.7 | 21.7 | 105.8 110.1 | 108.0 | 7.1 7.4 | 7.3 | 7.3 | 3.9 3.8 | 3.9 | | 4.5 5.3 | 4.9 | |
| | | | | 3.4 | Middle | ı | | - | 1 1 | - | 1 1 | - | - | - | | - | 7.5 | - | - | 4.0 | - | - | 4.9 |
| | | | | | Bottom | 2.4 | 29.8 29.6 | 29.7 | 8.4 8.4 | 8.4 | 21.9 22.1 | 22.0 | 109.5 105.4 | 107.5 | 7.4 7.1 | 7.2 | 7.2 | 4.0 4.2 | 4.1 | | 5.0 4.7 | 4.9 | |
| 26-Aug-16 | Sunny | Moderate | 08:25 | | Surface | 1.0 | 29.5 29.6 | 29.6 | 8.5 8.5 | 8.5 | 22.5 22.4 | 22.4 | 106.4 110.2 | 108.3 | 7.2 7.4 | 7.3 | 7.3 | 4.1 4.2 | 4.2 | | 6.2 4.8 | 5.5 | |
| | | | | 3.1 | Middle | - | - | - | - | - | - | - | - | - | - | - | 7.3 | - | - | 4.2 | - | - | 6.8 |
| | | | | | Bottom | 2.1 | 29.4 29.2 | 29.3 | 8.5 8.5 | 8.5 | 23.4 24.2 | 23.8 | 107.8 105.7 | 106.8 | 7.2 7.1 | 7.2 | 7.2 | 4.2 4.2 | 4.2 | | 8.0 8.1 | 8.1 | |
| 29-Aug-16 | Sunny | Moderate | 11:58 | | Surface | 1.0 | 28.1 28.3 | 28.2 | 8.4 8.4 | 8.4 | 24.7 24.7 | 24.7 | 93.5 92.6 | 93.1 | 6.4 6.4 | 6.4 | 6.4 | 4.5 4.4 | 4.5 | | 5.6 6.1 | 5.9 | |
| | | | | 3.1 | Middle | - | - | - | - | - | - | - | - | - | - | - | 0.4 | - | - | 4.5 | - | - | 5.9 |
| | | | | | Bottom | 2.1 | 28.1 28.1 | 28.1 | 8.4 8.4 | 8.4 | 25.5 25.6 | 25.6 | 91.8 92.3 | 92.1 | 6.3 6.3 | 6.3 | 6.3 | 4.4 4.5 | 4.5 | | 6.1 5.6 | 5.9 | |
| 31-Aug-16 | Sunny | Moderate | 13:23 | | Surface | 1.0 | 28.0 28.0 | 28.0 | 8.4 8.4 | 8.4 | 29.2 29.3 | 29.3 | 83.9 81.6 | 82.8 | 5.6 5.4 | 5.5 | 5.5 | 11.1 11.4 | 11.3 | | 15.8 15.8 | 15.8 | |
| | | | | 3.3 | Middle | - | - | - | | - | 1 1 | - | - | - | 1 1 | - | 5.5 | - | - | 11.3 | - | - | 18.3 |
| | | | | | Bottom | 2.3 | 28.0 28.0 | 28.0 | 8.4 8.4 | 8.4 | 29.3 29.1 | 29.2 | 82.6 86.9 | 84.8 | 5.5 5.8 | 5.6 | 5.6 | 11.1 11.2 | 11.2 | | 21.5 20.0 | 20.8 | |

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

[^] As Tropical Cyclone Warning Signal No.3 or above was hoisted, water quality monitoring (except the monitoring locations named CSA, CS6, SR10B(N) and SR10A during Mid-Ebb Tide) was stopped according to the Contingency Plan for Impact Monitoring.

^{*} DA: Depth-Averaged

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at IS(Mf)6 - Mid-FloodTide

| Date | Weather | Sea | Sampling | Water | Samp | ling | Temper | ature (°C) | | Н | Salini | ty (ppt) | DO Satu | ration (%) | Dissol | ved Oxygen | (mg/L) | Т | urbidity(NT | J) | Suspe | nded Solids | s (mg/L) |
|-------------|-----------|-------------|----------|-----------|---------|------|--------------|------------|------------|---------|--------------|----------|---------------|------------|------------|------------|--------|------------|-------------|----------|-------------|-------------|-------------|
| | Condition | Condition** | Time | Depth (m) | Depth | (m) | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | DA* | Value | Average | DA* | Value | Average | DA* |
| 1-Aug-16^ | Cloudy | Moderate | - | | Surface | - | - | - | - | - | - | - | - | - | - | - | | - | - | | - | - | |
| | | | | - | Middle | - | - | - | - | - | - | - | - | - | - | - | - | - | - | <u>-</u> | - | - | <u> </u> |
| | | | | | Bottom | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | - | - | 1 |
| 3-Aug-16 | Cloudy | Moderate | 07:20 | | Surface | 1.0 | 26.1 26.1 | 26.1 | 8.3 8.3 | 8.3 | 27.2 27.3 | 27.2 | 76.9 77.1 | 77.0 | 5.3 5.4 | 5.3 | | 5.9 6.1 | 6.0 | | 7.1 6.2 | 6.7 | |
| | | | | 3.4 | Middle | - | - | - | - | - | - | - | - | - | - | - | 5.3 | - | - | 6.1 | - 0.2 | - | 6.2 |
| | | | | | Bottom | 2.4 | 26.1 26.1 | 26.1 | 8.3 8.3 | 8.3 | 27.3 27.3 | 27.3 | 76.9 77.2 | 77.1 | 5.3 5.4 | 5.4 | 5.4 | 6.1 | 6.1 | | 5.1 6.2 | 5.7 | |
| 5-Aug-16 | Sunny | Moderate | 08:39 | | Surface | 1.0 | 26.7 | 26.7 | 8.1 | 8.1 | 24.1 | 24.1 | 76.6 | 78.0 | 5.4 | 5.5 | | 4.7 | 4.8 | | 5.0 | 5.3 | |
| | | | | 3.4 | Middle | _ | 26.7 | - | 8.1 | - | 24.2 | - | 79.4 | _ | 5.6 - | - | 5.5 | 4.8 | - | 4.9 | 5.5 | - | 6.7 |
| | | | | | Bottom | 2.4 | 26.7 | 26.7 | 8.1 | 8.1 | 24.2 | 24.2 | 76.0 | 76.6 | 5.3 | 5.4 | 5.4 | 4.9 | 4.9 | | 8.3 | 8.1 | 1 |
| 8-Aug-16 | Sunny | Moderate | 10:29 | | Surface | 1.0 | 26.7 29.1 | 29.1 | 8.1 8.1 | 8.1 | 24.2 20.5 | 20.5 | 77.1 96.5 | 97.9 | 5.4 6.6 | 6.7 | | 2.9 | 2.9 | | 7.8 4.8 | 5.2 | |
| | | | | 3.3 | Middle | | 29.1 | - | 8.1 | _ | 20.5 | - | 99.2 | _ | 6.8 | _ | 6.7 | 2.8 | _ | 2.9 | 5.5 | - | 4.4 |
| | | | | | Bottom | 2.3 | 28.9 | 28.9 | 8.1 | 8.1 | 20.6 | 20.7 | 98.4 | 96.8 | 6.8 | 6.7 | 6.7 | 2.8 | 2.8 | | 3.1 | 3.6 | 1 |
| 10-Aug-16 | Rainy | Moderate | 12:43 | | Surface | 1.0 | 28.8 28.3 | 28.3 | 8.1 8.4 | 8.4 | 20.7 | 20.0 | 95.1 102.8 | 102.7 | 6.6 7.2 | 7.2 | | 2.8 | 2.6 | | 4.0 3.5 | 3.3 | |
| | | | | 3.3 | Middle | 1.0 | 28.3 | 20.0 | 8.4 | 0.4 | 20.0 | 20.0 | 102.6 | 102.7 | 7.1 | 7.2 | 7.2 | 2.6 | 2.0 | 2.6 | 3.0 | - | 3.5 |
| | | | | 3.5 | Bottom | 2.3 | 28.4 | 28.4 | 8.3 | 8.4 | 20.4 | 20.4 | 101.6 | 102.6 | 7.1 | 7.1 | 7.1 | 2.6 | 2.6 | 2.0 | 3.2 | 3.7 | 5.5 |
| 12-Aug-16 | Fine | Moderate | 14:07 | | Surface | 1.0 | 28.4 27.6 | 27.6 | 8.4 8.2 | 8.2 | 20.4 21.5 | 21.5 | 103.5 86.9 | 87.6 | 7.2 6.1 | 6.1 | 7.1 | 2.6 | 2.2 | | 4.2 3.1 | 2.8 | |
| | | | | 3.3 | Middle | 1.0 | 27.6 | 21.0 | 8.2 | 0.2 | 21.5 | 21.5 | 88.2 | 07.0 | 6.1 | 0.1 | 6.1 | 2.2 | - | 2.2 | 2.4 | 2.0 | 3.0 |
| | | | | 3.3 | Bottom | 2.3 | 27.4 | 27.4 | 8.2 | 8.2 | 22.9 | 22.9 | - 87.6 | 87.7 | 6.1 | 6.1 | 6.1 | 2.1 | | 2.2 | 3.6 | 3.2 | 3.0 |
| 15-Aug-16 | Cloudy | Moderate | 17:12 | | | | 27.4 27.5 | | 8.2 8.4 | | 22.9 23.0 | | 87.7 108.4 | _ | 6.1 7.5 | | 0.1 | 2.1 3.2 | 2.1 | | 2.7 5.7 | | |
| | , | | | | Surface | 1.0 | 28.2 | 27.8 | 8.4 | 8.4 | 22.9 | 23.0 | 106.1 | 107.3 | 7.3 | 7.4 | 7.4 | 3.3 | 3.3 | | 5.2 | 5.5 | |
| | | | | 3.3 | Middle | - | - 27.2 | - | 8.3 | - | - 24.3 | - | 104.7 | - | 7.1 | - | | 3.1 | - | 3.3 | 7.9 | - | 6.5 |
| 17-Aug-16 | Rainy | Moderate | 18:34 | | Bottom | 2.3 | 27.5 26.8 | 27.3 | 8.4 8.4 | 8.4 | 24.5 25.7 | 24.4 | 109.6 96.8 | 107.2 | 7.6 6.7 | 7.3 | 7.3 | 3.3 5.0 | 3.2 | | 7.1 7.5 | 7.5 | |
| 17 / Aug 10 | rtairy | Wioderate | 10.04 | | Surface | 1.0 | 26.8 | 26.8 | 8.4 | 8.4 | 25.6 | 25.7 | 96.1 | 96.5 | 6.7 | 6.7 | 6.7 | 5.1 | 5.1 | | 7.1 | 7.3 | - |
| | | | | 3.4 | Middle | - | 26.8 | - | 8.4 | - | 25.7 | - | 96.1 | - | 6.7 | - | | 5.2 | - | 5.2 | 9.2 | - | 8.2 |
| 10 Aug 10 | Fine | Madarata | 07.52 | | Bottom | 2.4 | 26.7 | 26.8 | 8.4 | 8.4 | 25.8 | 25.8 | 95.4 | 95.8 | 6.6 | 6.6 | 6.6 | 5.3 | 5.3 | | 8.9 | 9.1 | <u> </u> |
| 19-Aug-16 | Fine | Moderate | 07:52 | | Surface | 1.0 | 26.3 26.3 | 26.3 | 8.2 8.2 | 8.2 | 26.9 26.9 | 26.9 | 83.4 79.2 | 81.3 | 5.8 5.5 | 5.6 | 5.6 | 5.9 5.6 | 5.8 | | 7.9 8.3 | 8.1 | _ |
| | | | | 3.1 | Middle | - | - | - | - | - | | - | | - | - | - | | - | - | 5.9 | - | - | 9.1 |
| | | | | | Bottom | 2.1 | 26.3 26.2 | 26.2 | 8.2 8.2 | 8.2 | 27.0 27.1 | 27.0 | 78.5 80.5 | 79.5 | 5.5 5.6 | 5.5 | 5.5 | 6.0 6.0 | 6.0 | | 10.2 9.9 | 10.1 | |

Remarks:

* DA: Depth-Averaged

** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at IS(Mf)6 - Mid-FloodTide

| Date | Weather | Sea | Sampling | Water | Samp | ling | Temper | ature (°C) | | ρΗ | Salini | ty (ppt) | DO Satu | ration (%) | Dissol | ved Oxygen | (mg/L) | 1 | urbidity(NT | J) | Susper | nded Solids | (mg/L) |
|-----------|-----------|-------------|----------|-----------|---------|------|--------------|------------|------------|---------|--------------|----------|----------------|------------|------------|------------|--------|------------|-------------|-----|------------|-------------|--------|
| | Condition | Condition** | Time | Depth (m) | Depth | (m) | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | DA* | Value | Average | DA* | Value | Average | DA* |
| 22-Aug-16 | Sunny | Moderate | 10:04 | | Surface | 1.0 | 28.1 28.1 | 28.1 | 8.1 8.2 | 8.2 | 21.3 21.4 | 21.4 | 73.8 74.4 | 74.1 | 5.1 5.2 | 5.1 | 5.1 | 2.9 3.1 | 3.0 | | 4.7 4.8 | 4.8 | |
| | | | | 3.2 | Middle | - | - | - | - | - | - | - | - | - | - | - | 0.1 | - | - | 3.1 | - | - | 5.1 |
| | | | | | Bottom | 2.2 | 28.0 28.0 | 28.0 | 8.1 8.1 | 8.1 | 22.4 22.4 | 22.4 | 74.7 73.8 | 74.3 | 5.2 5.1 | 5.1 | 5.1 | 3.1 3.0 | 3.1 | | 5.1 5.4 | 5.3 | |
| 24-Aug-16 | Sunny | Moderate | 12:18 | | Surface | 1.0 | 29.1 29.1 | 29.1 | 8.3 8.3 | 8.3 | 23.1 23.2 | 23.2 | 92.6 92.5 | 92.6 | 6.3 6.3 | 6.3 | 6.3 | 3.3 3.4 | 3.4 | | 1.7 1.6 | 1.7 | |
| | | | | 3.3 | Middle | ı | | • | | - | | - | | - | | - | 0.5 | - | - | 3.4 | - | - | 1.7 |
| | | | | | Bottom | 2.3 | 29.0 28.9 | 29.0 | 8.3 8.3 | 8.3 | 23.3 23.3 | 23.3 | 92.4 92.8 | 92.6 | 6.3 6.3 | 6.3 | 6.3 | 3.3 3.3 | 3.3 | | 1.6 1.5 | 1.6 | |
| 26-Aug-16 | Sunny | Moderate | 13:08 | | Surface | 1.0 | 30.0 29.9 | 30.0 | 8.5 8.5 | 8.5 | 21.5 21.6 | 21.5 | 135.1 135.1 | 135.1 | 9.0 9.1 | 9.1 | 9.1 | 2.8 2.8 | 2.8 | | 3.8 3.6 | 3.7 | |
| | | | | 3.2 | Middle | - | - | - | - | - | - | - | - | - | - | - | 5.1 | - | - | 2.9 | - | - | 4.1 |
| | | | | | Bottom | 2.2 | 29.6 29.9 | 29.8 | 8.5 8.5 | 8.5 | 22.6 22.6 | 22.6 | 129.6 130.1 | 129.9 | 8.7 8.7 | 8.7 | 8.7 | 3.1 2.9 | 3.0 | | 4.5 4.5 | 4.5 | |
| 29-Aug-16 | Sunny | Moderate | 17:03 | | Surface | 1.0 | 28.4 28.4 | 28.4 | 8.4 8.4 | 8.4 | 25.6 25.6 | 25.6 | 104.3 106.6 | 105.5 | 7.0 7.2 | 7.1 | 7.1 | 4.2 4.2 | 4.2 | | 6.4 6.6 | 6.5 | |
| | | | | 3.3 | Middle | - | | - | | - | | - | | - | | - | 7.1 | - | - | 4.3 | - | - | 6.3 |
| | | | | | Bottom | 2.3 | 28.3 28.4 | 28.3 | 8.4 8.4 | 8.4 | 25.9 25.6 | 25.8 | 96.0 101.6 | 98.8 | 6.5 6.9 | 6.7 | 6.7 | 4.2 4.4 | 4.3 | | 5.0 7.2 | 6.1 | |
| 31-Aug-16 | Sunny | Moderate | 18:04 | | Surface | 1.0 | 28.6 28.6 | 28.6 | 8.5 8.5 | 8.5 | 27.4 27.4 | 27.4 | 86.2 84.9 | 85.6 | 5.7 5.7 | 5.7 | 5.7 | 4.9 4.9 | 4.9 | | 7.8 6.8 | 7.3 | |
| | | | | 3.3 | Middle | - | - | - | - | - | - | - | - | - | - | - | 5.1 | - | - | 5.1 | - | - | 6.4 |
| | | | | | Bottom | 2.3 | 28.5 28.6 | 28.5 | 8.5 8.5 | 8.5 | 27.4 27.4 | 27.4 | 87.6 85.3 | 86.5 | 5.8 5.7 | 5.8 | 5.8 | 5.1 5.2 | 5.2 | | 5.5 5.4 | 5.5 | |

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

[^] As Tropical Cyclone Warning Signal No.3 or above was hoisted, water quality monitoring (except the monitoring locations named CSA, CS6, SR10B(N) and SR10A during Mid-Ebb Tide) was stopped according to the Contingency Plan for Impact Monitoring.

^{*} DA: Depth-Averaged

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at IS(Mf)9 - Mid-EbbTide

| Date | Weather | Sea | Sampling | Water | Sampl | ing | Temper | ature (°C) | | Н | Salini | ty (ppt) | DO Satu | ration (%) | Dissol | ed Oxygen | (mg/L) | Т | urbidity(NTl | J) | Suspe | nded Solids | (mg/L) |
|-----------|-----------|-------------|----------|-----------|---------|-------|--------------|------------|------------|---------|--------------|----------|---------------|------------|------------|-----------|--------|------------|--------------|----------|-------------|-------------|----------|
| | Condition | Condition** | Time | Depth (m) | Depth | (m) | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | DA* | Value | Average | DA* | Value | Average | DA* |
| 1-Aug-16^ | Cloudy | Moderate | - | | Surface | - | - | - | - | - | - | - | - | - | - | - | | - | - | | - | - | |
| | | | | - | Middle | - | - | - | - | - | - | - | - | - | - | - | - | - | - | <u>-</u> | - | - | <u>.</u> |
| | | | | | Bottom | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | - | - | |
| 3-Aug-16 | Cloudy | Moderate | 12:35 | | Surface | 1.0 | 26.2 26.2 | 26.2 | 8.0 | 8.1 | 26.2 26.2 | 26.2 | 87.3 | 85.6 | 6.1 | 6.0 | | 5.4 | 5.5 | | 6.6 6.9 | 6.8 | |
| | | | | 3.6 | Middle | _ | - 26.2 | - | 8.1 | - | - 26.2 | - | 83.8 | - | 5.9 - | - | 6.0 | 5.5 | - | 5.4 | - 6.9 | - | 7.4 |
| | | | | | Bottom | 2.6 | 26.1 | 26.1 | 8.0 | 8.0 | 26.3 | 26.3 | 92.7 | 89.1 | 6.5 | 6.2 | 6.2 | 5.2 | 5.3 | | 7.7 | 7.9 | |
| 5-Aug-16 | Sunny | Moderate | 13:40 | | Surface | 1.0 | 26.1 27.0 | 27.0 | 8.1 8.2 | 8.2 | 26.3 23.2 | 23.2 | 85.4 73.5 | 74.2 | 6.0 5.1 | 5.2 | | 5.3 3.6 | 3.6 | | 8.0 3.7 | 3.8 | |
| | | | | 3.4 | Middle | 1.0 | 26.9 | - | 8.2 | - | 23.3 | - | 74.9 | - | 5.2 - | 0.2 | 5.2 | 3.5 | - | 3.6 | 3.9 | - | 3.9 |
| | | | | 3.4 | | 2.4 | 26.9 | | 8.2 | 8.2 | 23.3 | | 73.9 | | - 5.2 | - | 5.3 | 3.6 | | 3.0 | 3.9 | 3.9 | 3.9 |
| 8-Aug-16 | Sunny | Moderate | 15:45 | | Bottom | | 26.8 29.8 | 26.9 | 8.2 8.1 | | 23.6 20.3 | 23.5 | 77.0 132.8 | 75.5 | 5.4 9.1 | 5.3 | 5.3 | 3.6 5.6 | 3.6 | | 3.8 8.1 | | |
| | , | | | | Surface | 1.0 | 29.1 | 29.5 | 8.1 | 8.1 | 20.7 | 20.5 | 127.8 | 130.3 | 8.8 | 8.9 | 8.9 | 5.9 | 5.8 | | 8.2 | 8.2 | |
| | | | | 3.7 | Middle | - | 28.7 | - | - 8.1 | - | 20.9 | - | - 124.9 | - | - 8.6 | - | | - 5.8 | - | 5.8 | 6.6 | - | 7.3 |
| 10.1 | Deiter | Madaga | 40.54 | | Bottom | 2.7 | 29.2 | 28.9 | 8.1 | 8.1 | 20.4 | 20.7 | 123.5 | 124.2 | 8.6 | 8.6 | 8.6 | 5.7 | 5.8 | | 5.9 | 6.3 | |
| 10-Aug-16 | Rainy | Moderate | 16:54 | | Surface | 1.0 | 28.4 28.1 | 28.2 | 8.4 8.4 | 8.4 | 20.3 20.2 | 20.3 | 89.6 88.4 | 89.0 | 6.2 6.2 | 6.2 | 6.2 | 3.5 3.4 | 3.5 | | 3.4 2.4 | 2.9 | |
| | | | | 3.7 | Middle | - | - | - | - | - | - | - | - | - | - | - | | - | - | 3.5 | - | - | 3.2 |
| | | | | | Bottom | 2.7 | 28.4 27.4 | 27.9 | 8.4 8.3 | 8.3 | 22.6 24.1 | 23.4 | 86.1 87.1 | 86.6 | 5.9 6.0 | 6.0 | 6.0 | 3.4 3.4 | 3.4 | | 3.4 3.6 | 3.5 | |
| 12-Aug-16 | Rainy | Moderate | 08:50 | | Surface | 1.0 | 27.2 27.1 | 27.1 | 8.1 8.2 | 8.2 | 22.9 22.3 | 22.6 | 84.5 82.5 | 83.5 | 5.9 5.8 | 5.8 | 5.8 | 6.4 6.1 | 6.3 | | 3.5 3.1 | 3.3 | |
| | | | | 3.6 | Middle | - | - | - | - | - | - | - | - | - | - | - | 5.6 | - | - | 6.4 | - | - | 3.2 |
| | | | | | Bottom | 2.6 | 27.2 26.5 | 26.9 | 8.1 8.1 | 8.1 | 25.3 25.7 | 25.5 | 84.2 82.4 | 83.3 | 5.8 5.7 | 5.8 | 5.8 | 6.5 6.5 | 6.5 | | 2.8 3.1 | 3.0 | |
| 15-Aug-16 | Cloudy | Moderate | 11:43 | | Surface | 1.0 | 27.2 27.2 | 27.2 | 8.3 8.3 | 8.3 | 24.4 25.2 | 24.8 | 80.7 84.1 | 82.4 | 5.5 5.7 | 5.6 | | 4.8 4.7 | 4.8 | | 5.8 5.5 | 5.7 | |
| | | | | 3.7 | Middle | - | - | - | - | - | - | - | - | - | - | - | 5.6 | - | - | 4.9 | - | - | 5.9 |
| | | | | | Bottom | 2.7 | 26.4 26.1 | 26.3 | 8.2 8.2 | 8.2 | 28.0 28.1 | 28.1 | 80.1 84.2 | 82.2 | 5.4 5.7 | 5.5 | 5.5 | 4.9 4.8 | 4.9 | | 6.0 | 6.0 | |
| 17-Aug-16 | Rainy | Moderate | 12:51 | | Surface | 1.0 | 26.7 | 26.5 | 8.3 | 8.3 | 25.2 | 25.4 | 80.2 | 80.9 | 5.6 | 5.6 | | 4.3 | 4.4 | | 6.0 | 6.2 | |
| | | | | 3.6 | Middle | - | 26.4 | - | 8.3 | - | 25.5 | - | 81.5 - | - | 5.7 - | - | 5.6 | 4.4 | - | 4.5 | 6.4 | - | 6.1 |
| | | | | | Bottom | 2.6 | 26.1 | 26.4 | 8.3 | 8.3 | 26.7 | 26.0 | 76.6 | 77.2 | 5.4 | 5.4 | 5.4 | 4.6 | 4.6 | | 5.8 | 5.9 | |
| 19-Aug-16 | Fine | Moderate | 12:52 | | Surface | 1.0 | 26.7 26.5 | 26.5 | 8.3 8.3 | 8.3 | 25.3 26.9 | 26.9 | 77.8 80.8 | 79.1 | 5.4 5.6 | 5.5 | w | 4.6 6.8 | 6.9 | | 6.0 11.6 | 11.4 | |
| | | | | 3.7 | Middle | | 26.5 | 20.3 | 8.3 | 0.5 | 26.9 | - | 77.4 | - | 5.4 | 0.0 | 5.5 | 6.9 | - | 6.9 | 11.2 | - | 11.9 |
| | | | | 3.1 | | - 0.7 | 26.4 | | 8.3 | | 26.9 | | 76.7 | | - 5.3 | - | 5.4 | 6.9 | | 0.9 | 12.7 | | 11.8 |
| | | | | | Bottom | 2.7 | 26.4 | 26.4 | 8.3 | 8.3 | 26.9 | 26.9 | 78.6 | 77.7 | 5.4 | 5.4 | 5.4 | 6.7 | 6.8 | | 11.8 | 12.3 | |

Remarks:

* DA: Depth-Averaged

** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at IS(Mf)9 - Mid-EbbTide

| Date | Weather | Sea | Sampling | Water | Samp | ling | Temper | ature (°C) | | ρΗ | Salini | ty (ppt) | DO Satu | ration (%) | Dissol | ved Oxygen | (mg/L) | Т | urbidity(NT | J) | Susper | nded Solids | (mg/L) د |
|-----------|-----------|-------------|----------|-----------|---------|------|--------------|------------|------------|---------|--------------|----------|----------------|------------|------------|------------|--------|------------|-------------|-----|--------------|-------------|----------|
| | Condition | Condition** | Time | Depth (m) | Depth | (m) | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | DA* | Value | Average | DA* | Value | Average | DA* |
| 22-Aug-16 | Sunny | Moderate | 14:29 | | Surface | 1.0 | 28.9 28.9 | 28.9 | 8.2 8.2 | 8.2 | 20.3 20.3 | 20.3 | 78.8 79.9 | 79.4 | 5.5 5.5 | 5.5 | 5.5 | 4.7 4.7 | 4.7 | | 5.8 6.1 | 6.0 | |
| | | | | 4.0 | Middle | - | - | - | - | - | - | - | - | - | - | - | 0.0 | - | - | 4.7 | - | - | 6.1 |
| | | | | | Bottom | 3.0 | 28.7 28.3 | 28.5 | 8.2 8.2 | 8.2 | 21.4 21.5 | 21.5 | 79.0 78.8 | 78.9 | 5.4 5.4 | 5.4 | 5.4 | 4.6 4.6 | 4.6 | | 5.4 6.9 | 6.2 | |
| 24-Aug-16 | Sunny | Moderate | 16:28 | | Surface | 1.0 | 29.3 29.2 | 29.2 | 8.4 8.4 | 8.4 | 21.9 22.1 | 22.0 | 93.4 93.4 | 93.4 | 6.3 6.3 | 6.3 | 6.3 | 6.3 6.3 | 6.3 | | 3.7 3.6 | 3.7 | |
| | | | | 3.7 | Middle | 1 | | • | 1 1 | - | | - | | - | | - | 0.5 | - | - | 6.4 | | - | 3.8 |
| | | | | | Bottom | 2.7 | 29.1 28.8 | 28.9 | 8.4 8.4 | 8.4 | 22.4 22.7 | 22.5 | 94.5 97.7 | 96.1 | 6.4 6.7 | 6.5 | 6.5 | 6.4 6.3 | 6.4 | | 3.9 3.7 | 3.8 | |
| 26-Aug-16 | Sunny | Moderate | 08:09 | | Surface | 1.0 | 29.2 29.3 | 29.2 | 8.4 8.4 | 8.4 | 22.2 22.3 | 22.2 | 100.5 101.3 | 100.9 | 6.8 6.8 | 6.8 | 6.8 | 4.4 4.4 | 4.4 | | 5.4 6.2 | 5.8 | |
| | | | | 3.4 | Middle | - | - | - | - | - | - | - | - | - | - | - | 0.0 | - | - | 4.5 | - | - | 5.8 |
| | | | | | Bottom | 2.4 | 29.2 28.9 | 29.0 | 8.4 8.4 | 8.4 | 24.4 24.4 | 24.4 | 95.3 95.0 | 95.2 | 6.5 6.4 | 6.4 | 6.4 | 4.6 4.4 | 4.5 | | 5.9 5.7 | 5.8 | |
| 29-Aug-16 | Sunny | Moderate | 11:42 | | Surface | 1.0 | 28.3 28.1 | 28.2 | 8.4 8.3 | 8.3 | 24.5 24.8 | 24.7 | 85.1 80.6 | 82.9 | 5.8 5.5 | 5.6 | 5.6 | 6.5 6.5 | 6.5 | | 6.5 6.2 | 6.4 | |
| | | | | 3.7 | Middle | 1 | | - | | - | | - | | - | | - | 3.0 | - | - | 6.6 | | - | 6.0 |
| | | | | | Bottom | 2.7 | 27.9 27.9 | 27.9 | 8.3 8.3 | 8.3 | 27.8 27.8 | 27.8 | 77.2 81.3 | 79.3 | 5.3 5.6 | 5.5 | 5.5 | 6.6 6.6 | 6.6 | | 5.0 6.0 | 5.5 | |
| 31-Aug-16 | Sunny | Moderate | 13:08 | | Surface | 1.0 | 28.0 28.0 | 28.0 | 8.4 8.4 | 8.4 | 29.1 29.2 | 29.2 | 82.9 79.3 | 81.1 | 5.5 5.3 | 5.4 | 5.4 | 7.5 7.6 | 7.6 | _ | 9.9 8.7 | 9.3 | |
| | | | | 3.7 | Middle | - | - | - | | - | | - | 1 1 | - | | - | 5.4 | - | - | 7.8 | | - | 10.1 |
| | | | | | Bottom | 2.7 | 28.0 28.0 | 28.0 | 8.4 8.4 | 8.4 | 29.3 29.3 | 29.3 | 81.3 81.9 | 81.6 | 5.4 5.5 | 5.4 | 5.4 | 7.9 7.9 | 7.9 | | 10.7 10.9 | 10.8 | |

Remarks

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

[^] As Tropical Cyclone Warning Signal No.3 or above was hoisted, water quality monitoring (except the monitoring locations named CSA, CS6, SR10B(N) and SR10A during Mid-Ebb Tide) was stopped according to the Contingency Plan for Impact Monitoring.

^{*} DA: Depth-Averaged

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at IS(Mf)9 - Mid-FloodTide

| Date | Weather | Sea | Sampling | Water | Sampl | ling | Temper | ature (°C) | | Н | Salini | ty (ppt) | DO Satu | ration (%) | Dissol | ed Oxygen | (mg/L) | Т | urbidity(NTl | J) | Suspe | nded Solids | s (mg/L) |
|-----------|-----------|-------------|----------|-----------|----------|------|--------------|------------|------------|---------|--------------|----------|--------------|------------|------------|-----------|--------|--------------|--------------|----------|--------------|-------------|----------|
| | Condition | Condition** | Time | Depth (m) | Depth | (m) | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | DA* | Value | Average | DA* | Value | Average | DA* |
| 1-Aug-16^ | Cloudy | Moderate | - | | Surface | - | - | - | - | - | - | - | - | - | - | - | | - | - | | - | - | |
| | | | | - | Middle | - | - | - | - | - | - | - | - | - | - | - | - | - | - | <u>-</u> | - | - | <u> </u> |
| | | | | | Bottom | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | - | - | |
| 3-Aug-16 | Cloudy | Moderate | 06:58 | | Surface | 1.0 | 26.2 | 26.2 | 8.3 | 8.3 | 27.5 | 27.5 | 79.5 | 79.4 | 5.5 | 5.5 | | 5.2 | 5.3 | | 6.5 | 6.9 | |
| | | | | 3.8 | Middle | _ | 26.2 | - | 8.3 | - | 27.5 | - | 79.3 | - | 5.5 - | - | 5.5 | 5.4 | - | 5.3 | 7.2 | - | 6.8 |
| | | | | | Bottom | 2.8 | 26.2 | 26.2 | 8.2 | 8.2 | 27.9 | 27.9 | 79.7 | 79.6 | 5.5 | 5.5 | 5.5 | 5.2 | 5.3 | | 7.1 | 6.7 | 1 |
| 5-Aug-16 | Sunny | Moderate | 08:27 | | Surface | 1.0 | 26.2 26.9 | 26.8 | 8.2 8.1 | 8.1 | 27.9 22.7 | 22.8 | 79.5 80.3 | 80.3 | 5.5 5.7 | 5.7 | | 5.3 3.6 | 3.6 | | 6.3 3.7 | 3.4 | |
| | | | | 3.7 | Middle | 1.0 | 26.8 | - | 8.1 | - | 22.9 | - | 80.3 | - | 5.7 | 0.7 | 5.7 | 3.5 | - | 3.6 | 3.1 | - | 3.4 |
| | | | | 3.7 | Bottom | 2.7 | 26.7 | 26.7 | 8.1 | 8.1 | 23.8 | 23.8 | 80.2 | 80.3 | 5.7 | 5.7 | 5.7 | 3.5 | 3.6 | 3.0 | 3.0 | 3.3 | . 5.4 |
| 8-Aug-16 | Sunny | Moderate | 10:13 | | | | 26.6 28.4 | 28.4 | 8.1 8.1 | | 23.8 20.1 | | 80.3 82.2 | 82.5 | 5.7 5.7 | | 5.7 | 3.6 4.8 | | | 3.5 4.8 | | |
| Ü | , | | | 0.0 | Surface | 1.0 | 28.4 | 28.4 | 8.1 | 8.1 | 20.1 | 20.1 | 82.8 | 82.5 | 5.8 | 5.7 | 5.7 | 4.8 | 4.8 | 4.0 | 3.5 | 4.2 | |
| | | | | 3.8 | Middle | - | 28.4 | - | - 8.1 | - | 21.0 | - | - 82.5 | - | - 5.7 | - | | 4.7 | - | 4.8 | 3.7 | - | 4.0 |
| 10-Aug-16 | Rainy | Moderate | 12:29 | | Bottom | 2.8 | 28.4 | 28.4 | 8.1 8.3 | 8.1 | 21.1 | 21.0 | 84.3 95.7 | 83.4 | 5.8 6.7 | 5.8 | 5.8 | 4.8 | 4.8 | | 3.6 | 3.7 | |
| 10-Aug-10 | Railly | Moderate | 12.29 | | Surface | 1.0 | 28.3 | 28.3 | 8.3 | 8.3 | 20.2 | 20.1 | 95.7 | 95.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 | | 3.6 | 3.5 | - |
| | | | | 3.7 | Middle | - | - | - | - | - | - | - | - | - | - | - | | - | - | 6.7 | - | - | 3.4 |
| | | | | | Bottom | 2.7 | 28.4 28.4 | 28.4 | 8.3 8.3 | 8.3 | 21.2 21.2 | 21.2 | 96.7 95.3 | 96.0 | 6.7 6.6 | 6.6 | 6.6 | 6.6 6.5 | 6.6 | | 2.9 3.5 | 3.2 | |
| 12-Aug-16 | Fine | Moderate | 14:22 | | Surface | 1.0 | 27.4 27.6 | 27.5 | 8.2 8.2 | 8.2 | 22.2 21.9 | 22.0 | 85.4 87.3 | 86.4 | 5.9 6.1 | 6.0 | 6.0 | 2.4 2.3 | 2.4 | | 2.7 2.9 | 2.8 | |
| | | | | 3.7 | Middle | - | | - | - | - | | - | | - | - | - | 0.0 | - | - | 2.4 | - | - | 3.0 |
| | | | | | Bottom | 2.7 | 27.3 27.2 | 27.2 | 8.2 8.2 | 8.2 | 23.7 23.4 | 23.5 | 83.4 86.6 | 85.0 | 5.8 6.0 | 5.9 | 5.9 | 2.4 2.4 | 2.4 | | 3.6 2.6 | 3.1 | |
| 15-Aug-16 | Cloudy | Moderate | 17:26 | | Surface | 1.0 | 27.3 27.2 | 27.2 | 8.4 8.4 | 8.4 | 24.1 24.2 | 24.2 | 97.4 95.9 | 96.7 | 6.8 6.7 | 6.7 | 6.7 | 11.1 11.2 | 11.2 | | 14.4 14.4 | 14.4 | |
| | | | | 3.7 | Middle | - | - | - | - | - | | - | - | - | - | - | 6.7 | - | - | 11.2 | - | - | 15.3 |
| | | | | | Bottom | 2.7 | 27.2 27.1 | 27.1 | 8.4 8.4 | 8.4 | 24.8 25.4 | 25.1 | 99.6 98.4 | 99.0 | 6.9 6.8 | 6.8 | 6.8 | 11.2 11.2 | 11.2 | | 16.0 16.3 | 16.2 | |
| 17-Aug-16 | Rainy | Moderate | 18:49 | | Surface | 1.0 | 26.8 26.8 | 26.8 | 8.4 8.4 | 8.4 | 25.8 25.8 | 25.8 | 97.9 97.7 | 97.8 | 6.8 6.8 | 6.8 | | 5.1 5.2 | 5.2 | | 5.5 5.9 | 5.7 | |
| | | | | 3.6 | Middle | - | - | - | - | - | - | - | | - | - | - | 6.8 | - | - | 5.4 | - | - | 6.1 |
| | | | | | Bottom | 2.6 | 26.7 26.8 | 26.8 | 8.4 8.4 | 8.4 | 25.8 25.8 | 25.8 | 96.7 96.4 | 96.6 | 6.7 6.7 | 6.7 | 6.7 | 5.6 5.5 | 5.6 | | 6.4 | 6.4 | 1 |
| 19-Aug-16 | Fine | Moderate | 07:36 | | Surface | 1.0 | 26.2 | 26.2 | 8.2 | 8.2 | 27.2 | 27.2 | 82.6 | 84.5 | 5.8 | 5.9 | | 3.9 | 3.9 | | 6.2 | 6.1 | |
| | | | | 3.7 | Middle | - | 26.2 | - | 8.2 | - | 27.2 | - | 86.3 | - | 6.0 | - | 5.9 | 3.9 | - | 4.0 | 5.9 | - | 6.2 |
| | | | | | Bottom | 2.7 | 26.1 | 26.1 | 8.2 | 8.2 | 27.6 | 27.6 | 82.0 | 82.8 | 5.7 | 5.8 | 5.8 | 4.1 | 4.1 | | 6.4 | 6.2 | 1 |
| | | | j . | | Dottoili | £.1 | 26.1 | 20.1 | 8.2 | J.Z | 27.6 | 21.0 | 83.6 | 02.0 | 5.8 | 0.0 | 0.0 | 4.1 | 7.1 | | 5.9 | V.Z | |

Remarks:

* DA: Depth-Averaged

** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at IS(Mf)9 - Mid-FloodTide

| Date | Weather | Sea | Sampling | Water | Samp | ling | Temper | ature (°C) | | ρΗ | Salini | ty (ppt) | DO Satu | ration (%) | Dissol | ved Oxygen | (mg/L) | Т | urbidity(NT | J) | Susper | nded Solids | (mg/L) |
|-----------|-----------|-------------|----------|-----------|---------|------|--------------|------------|------------|---------|--------------|----------|----------------|------------|------------|------------|--------|--------------|-------------|------|--------------|-------------|----------|
| | Condition | Condition** | Time | Depth (m) | Depth | (m) | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | DA* | Value | Average | DA* | Value | Average | DA* |
| 22-Aug-16 | Sunny | Moderate | 09:47 | | Surface | 1.0 | 28.0 28.0 | 28.0 | 8.1 8.1 | 8.1 | 21.6 21.7 | 21.7 | 85.7 82.0 | 83.9 | 6.1 5.8 | 6.0 | 6.0 | 5.3 5.2 | 5.3 | | 4.6 4.0 | 4.3 | |
| | | | | 3.5 | Middle | - | - | - | - | - | - | - | - | - | - | - | 0.0 | - | - | 5.3 | - | - | 4.6 |
| | | | | | Bottom | 2.5 | 27.9 28.0 | 27.9 | 8.1 8.1 | 8.1 | 22.4 22.5 | 22.4 | 82.8 81.1 | 82.0 | 5.9 5.8 | 5.9 | 5.9 | 5.3 5.3 | 5.3 | | 4.2 5.3 | 4.8 | |
| 24-Aug-16 | Sunny | Moderate | 12:02 | | Surface | 1.0 | 28.6 28.6 | 28.6 | 8.2 8.2 | 8.2 | 23.4 23.3 | 23.3 | 80.0 83.3 | 81.7 | 5.4 5.7 | 5.6 | 5.6 | 5.8 5.6 | 5.7 | | 3.5 3.4 | 3.5 | |
| | | | | 3.7 | Middle | 1 | | • | | - | | - | | - | | - | 3.0 | - | - | 5.7 | | - | 3.3 |
| | | | | | Bottom | 2.7 | 28.6 28.6 | 28.6 | 8.2 8.2 | 8.2 | 23.6 23.6 | 23.6 | 81.2 87.7 | 84.5 | 5.5 6.0 | 5.7 | 5.7 | 5.6 5.6 | 5.6 | | 3.1 2.8 | 3.0 | |
| 26-Aug-16 | Sunny | Moderate | 13:18 | | Surface | 1.0 | 29.5 29.6 | 29.5 | 8.5 8.6 | 8.6 | 22.3 22.0 | 22.1 | 118.3 118.0 | 118.2 | 8.0 8.0 | 8.0 | 8.0 | 5.7 6.0 | 5.9 | | 11.2 11.6 | 11.4 | |
| | | | | 3.7 | Middle | - | - | - | - | - | - | - | - | - | - | - | 0.0 | - | - | 5.9 | - | - | 11.3 |
| | | | | | Bottom | 2.7 | 28.9 29.6 | 29.3 | 8.5 8.5 | 8.5 | 23.8 23.2 | 23.5 | 113.9 112.6 | 113.3 | 7.7 7.5 | 7.6 | 7.6 | 5.8 5.9 | 5.9 | | 11.2 11.1 | 11.2 | |
| 29-Aug-16 | Sunny | Moderate | 17:15 | | Surface | 1.0 | 28.1 28.1 | 28.1 | 8.5 8.5 | 8.5 | 26.2 26.3 | 26.3 | 85.3 81.6 | 83.5 | 5.7 5.5 | 5.6 | 5.6 | 11.1 11.2 | 11.2 | | 8.3 8.4 | 8.4 | |
| | | | | 3.7 | Middle | 1 | | - | | - | | - | | - | | - | 3.0 | - | - | 11.3 | | - | 8.8 |
| | | | | | Bottom | 2.7 | 27.8 28.1 | 27.9 | 8.5 8.5 | 8.5 | 28.5 27.4 | 28.0 | 79.3 80.5 | 79.9 | 5.4 5.4 | 5.4 | 5.4 | 11.1 11.4 | 11.3 | | 8.7 9.7 | 9.2 | |
| 31-Aug-16 | Sunny | Moderate | 18:23 | | Surface | 1.0 | 28.3 28.3 | 28.3 | 8.4 8.4 | 8.4 | 28.0 27.9 | 27.9 | 82.2 85.7 | 84.0 | 5.5 5.7 | 5.6 | 5.6 | 11.6 11.2 | 11.4 | | 21.9 21.0 | 21.5 | |
| | | | | 3.6 | Middle | - | - | - | - | - | - | - | - | - | - | - | 3.0 | - | - | 11.4 | - | - | 21.0 |
| | | | | | Bottom | 2.6 | 28.3 28.3 | 28.3 | 8.4 8.4 | 8.4 | 28.0 27.9 | 27.9 | 81.6 83.2 | 82.4 | 5.4 5.6 | 5.5 | 5.5 | 11.4 11.1 | 11.3 | | 20.8 20.0 | 20.4 | <u> </u> |

Remarks

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

[^] As Tropical Cyclone Warning Signal No.3 or above was hoisted, water quality monitoring (except the monitoring locations named CSA, CS6, SR10B(N) and SR10A during Mid-Ebb Tide) was stopped according to the Contingency Plan for Impact Monitoring.

^{*} DA: Depth-Averaged

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at IS10 - Mid-EbbTide

| Date | Weather | Sea | Sampling | Water | Samp | ling | Temper | ature (°C) | | Н | Salini | ty (ppt) | DO Satu | ration (%) | Dissol | ed Oxygen | (mg/L) | Т | urbidity(NT | J) | Suspe | nded Solids | s (mg/L) |
|------------|-----------|-------------|----------|-----------|---------|------|--------------|------------|------------|---------|--------------|----------|--------------|------------|------------|-----------|--------|--------------|-------------|----------|--------------|-------------|----------|
| | Condition | Condition** | Time | Depth (m) | Depth | (m) | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | DA* | Value | Average | DA* | Value | Average | DA* |
| 1-Aug-16^ | Cloudy | Moderate | - | | Surface | - | - | - | - | - | - | - | - | - | - | - | | - | - | | - | - | |
| | | | | - | Middle | - | - | - | - | - | - | - | - | - | - | - | - | - | - | <u>=</u> | - | - | <u>.</u> |
| | | | | | Bottom | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | - | - | |
| 3-Aug-16 | Cloudy | Moderate | 12:57 | | Surface | 1.0 | 26.0 26.0 | 26.0 | 8.0 8.0 | 8.0 | 24.4 23.9 | 24.2 | 76.9 77.9 | 77.4 | 5.4 5.5 | 5.5 | | 10.0 10.1 | 10.1 | | 6.3 6.9 | 6.6 | |
| | | | | 11.1 | Middle | 5.6 | 25.9 | 25.9 | 8.0 | 8.0 | 25.2 | 24.9 | 76.8 | 77.2 | 5.4 | 5.5 | 5.5 | 10.2 | 10.3 | 10.2 | 7.6 | 7.7 | 7.7 |
| | | | | | Bottom | 10.1 | 25.9 25.8 | 25.9 | 8.0 | 8.0 | 24.7 24.9 | 25.2 | 77.6 76.1 | 76.3 | 5.5 5.4 | 5.4 | 5.4 | 10.3 | 10.3 | | 7.8 8.9 | 8.9 | |
| 5-Aug-16 | Sunny | Moderate | 14:32 | | Surface | 1.0 | 25.9 27.7 | 27.6 | 8.0 | 8.0 | 25.4 23.1 | 23.2 | 76.4 75.3 | 75.3 | 5.4 | 5.2 | | 3.3 | 3.3 | | 3.3 | 3.5 | |
| | | | | 11.9 | Middle | 6.0 | 27.6 27.5 | 27.5 | 7.9 7.9 | 7.9 | 23.2 23.5 | 23.6 | 75.2 74.5 | 74.6 | 5.2 5.2 | 5.2 | 5.2 | 3.2 | 3.5 | 3.6 | 3.7 2.5 | 2.5 | 3.1 |
| | | | | | Bottom | 10.9 | 27.5 27.4 | 27.5 | 7.9 | 7.9 | 23.6 23.7 | 23.7 | 74.6 73.4 | 73.2 | 5.2 5.1 | 5.1 | 5.1 | 3.5 3.8 | 3.9 | | 2.5 3.8 | 3.4 | 1 |
| 8-Aug-16 | Sunny | Moderate | 16:05 | | Surface | 1.0 | 27.5 29.7 | 29.6 | 7.9 7.9 | 7.9 | 23.6 19.7 | 19.0 | 73.0 87.6 | 88.4 | 5.1 6.1 | 6.1 | | 3.9 | 3.4 | | 2.9 5.1 | 6.0 | |
| | | | | 10.8 | Middle | 5.4 | 29.6 27.9 | 27.9 | 8.0 7.9 | 7.9 | 18.3 21.6 | 21.5 | 89.1 86.4 | 85.3 | 6.2 5.9 | 5.9 | 6.0 | 3.4 | 3.6 | 3.6 | 6.8 3.6 | 3.9 | 5.6 |
| | | | | 10.0 | Bottom | 9.8 | 28.0 27.6 | 27.6 | 7.9 7.9 | 7.9 | 21.4 24.0 | 23.9 | 84.2 79.6 | 79.6 | 5.9 5.5 | 5.5 | 5.5 | 3.6 3.6 | 3.7 | 0.0 | 4.1 6.8 | 6.9 | . 0.0 |
| 10-Aug-16 | Rainy | Moderate | 17:31 | | | 1.0 | 27.6 27.6 | 27.8 | 7.9 8.0 | 8.1 | 23.9 20.7 | 20.3 | 79.6 81.7 | 81.6 | 5.6 5.6 | 5.6 | 5.5 | 3.7 1.4 | | | 6.9 1.8 | 1.8 | |
| | | | | 40.0 | Surface | | 27.9 27.3 | 27.3 | 8.1 8.0 | 8.0 | 20.0 23.5 | | 81.5 79.4 | 79.7 | 5.6 5.6 | | 5.6 | 1.5 1.7 | 1.5 | 4.7 | 1.7 | | |
| | | | | 10.8 | Middle | 5.4 | 27.2 27.3 | - | 8.0 8.0 | | 23.8 26.5 | 23.6 | 79.9 78.1 | | 5.6 5.4 | 5.6 | | 1.7 1.9 | 1.7 | 1.7 | 1.7 2.1 | 1.7 | 1.9 |
| 12-Aug-16 | Rainy | Moderate | 08:04 | | Bottom | 9.8 | 27.1 | 27.2 | 7.9 8.0 | 8.0 | 25.4 20.1 | 26.0 | 78.0 77.2 | 78.1 | 5.4 5.4 | 5.4 | 5.4 | 1.8 | 1.9 | | 2.0 | 2.1 | |
| 12 /lug 10 | rtairy | Woderate | 00.04 | | Surface | 1.0 | 27.8 27.4 | 27.8 | 8.0 7.9 | 8.0 | 20.2 | 20.2 | 78.7 76.6 | 78.0 | 5.4 5.4 | 5.4 | 5.4 | 1.1 | 1.1 | | 2.6 | 2.5 | - |
| | | | | 11.1 | Middle | 5.6 | 26.1 26.0 | 26.7 | 7.9 7.9 | 7.9 | 24.3 28.5 | 23.4 | 76.8 71.7 | 76.7 | 5.4 5.1 | 5.4 | | 1.1 | 1.2 | 1.2 | 2.1 | 2.2 | 2.4 |
| 45 4 40 | Clavidi | Madaata | 40.07 | | Bottom | 10.1 | 26.2 26.5 | 26.1 | 7.9 7.9 | 7.9 | 27.5 25.1 | 28.0 | 74.1 74.5 | 72.9 | 5.2 | 5.1 | 5.1 | 1.4 | 1.4 | | 3.1 | 2.6 | |
| 15-Aug-16 | Cloudy | Moderate | 10:27 | | Surface | 1.0 | 26.7 | 26.6 | 8.0 | 8.0 | 24.6 | 24.9 | 74.3 | 74.4 | 5.3 5.3 | 5.3 | 5.3 | 3.2 | 3.2 | | 5.8 6.3 | 6.1 | - |
| | | | | 11.2 | Middle | 5.6 | 26.2 26.6 | 26.4 | 7.9 8.0 | 7.9 | 26.2 25.1 | 25.6 | 73.4 73.1 | 73.3 | 5.2 5.2 | 5.2 | | 3.6 3.5 | 3.6 | 3.6 | 4.5 4.4 | 4.5 | 5.7 |
| | | | | | Bottom | 10.2 | 25.9 26.4 | 26.1 | 7.9 7.9 | 7.9 | 28.3 26.2 | 27.3 | 72.6 72.0 | 72.3 | 5.2 5.1 | 5.2 | 5.2 | 3.9 3.8 | 3.9 | | 6.5 6.4 | 6.5 | <u> </u> |
| 17-Aug-16 | Rainy | Moderate | 12:18 | | Surface | 1.0 | 26.3 26.3 | 26.3 | 8.0 8.0 | 8.0 | 27.6 27.5 | 27.5 | 83.1 82.1 | 82.6 | 5.8 5.7 | 5.7 | 5.7 | 4.1 4.1 | 4.1 | | 4.1 4.4 | 4.3 | |
| | | | | 10.5 | Middle | 5.3 | 25.9 25.9 | 25.9 | 8.0 8.0 | 8.0 | 28.3 28.4 | 28.3 | 82.9 81.3 | 82.1 | 5.8 5.7 | 5.7 | - | 4.3 4.3 | 4.3 | 4.2 | 5.6 5.6 | 5.6 | 4.6 |
| | | | | | Bottom | 9.5 | 25.6 26.0 | 25.8 | 8.0 8.0 | 8.0 | 29.2 28.3 | 28.8 | 78.8 81.1 | 80.0 | 5.5 5.7 | 5.6 | 5.6 | 4.3 4.3 | 4.3 | | 3.8 4.2 | 4.0 | |
| 19-Aug-16 | Fine | Moderate | 13:27 | | Surface | 1.0 | 26.3 26.3 | 26.3 | 8.1 8.1 | 8.1 | 28.4 28.2 | 28.3 | 77.3 77.4 | 77.4 | 5.4 5.4 | 5.4 | 5.4 | 10.6 10.7 | 10.7 | | 14.5 14.0 | 14.3 | |
| | | | | 10.3 | Middle | 5.2 | 26.2 26.1 | 26.1 | 8.1 8.1 | 8.1 | 28.6 28.5 | 28.6 | 76.3 76.2 | 76.3 | 5.4 5.4 | 5.4 | 5.4 | 11.1 10.9 | 11.0 | 11.0 | 15.5 16.1 | 15.8 | 15.2 |
| | | | | | Bottom | 9.3 | 26.2 26.1 | 26.1 | 8.1 8.0 | 8.0 | 28.4 28.9 | 28.7 | 74.9 75.2 | 75.1 | 5.3 5.3 | 5.3 | 5.3 | 11.2 11.3 | 11.3 | | 15.8 15.2 | 15.5 | |

Remarks:

* DA: Depth-Averaged

** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at IS10 - Mid-EbbTide

| Date | Weather | Sea | Sampling | Water | Samp | ling | Tempera | ature (°C) | ŗ | ρΗ | Salini | ty (ppt) | DO Satu | ration (%) | Dissol | ved Oxygen | (mg/L) | Т | urbidity(NT | U) | Susper | nded Solids | (mg/L) د |
|-----------|-----------|-------------|----------|-----------|---------|------|--------------|------------|------------|---------|--------------|----------|--------------|------------|------------|------------|--------|------------|-------------|-----|------------|-------------|----------|
| | Condition | Condition** | Time | Depth (m) | Depth | (m) | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | DA* | Value | Average | DA* | Value | Average | DA* |
| 22-Aug-16 | Sunny | Moderate | 15:30 | | Surface | 1.0 | 28.5 28.2 | 28.4 | 8.0 8.0 | 8.0 | 23.0 23.2 | 23.1 | 75.5 76.1 | 75.8 | 5.3 5.3 | 5.3 | 5.3 | 6.1 6.0 | 6.1 | | 5.1 5.3 | 5.2 | |
| | | | | 10.8 | Middle | 5.4 | 28.0 28.1 | 28.1 | 8.0 8.0 | 8.0 | 23.6 23.4 | 23.5 | 75.1 74.4 | 74.8 | 5.2 5.2 | 5.2 | 3.3 | 6.3 6.4 | 6.4 | 6.4 | 5.7 6.4 | 6.1 | 6.2 |
| | | | | | Bottom | 9.8 | 28.3 27.8 | 28.1 | 8.0 8.0 | 8.0 | 23.5 24.1 | 23.8 | 74.0 73.4 | 73.7 | 5.2 5.1 | 5.1 | 5.1 | 6.5 6.6 | 6.6 | | 7.2 7.6 | 7.4 | |
| 24-Aug-16 | Sunny | Moderate | 16:32 | | Surface | 1.0 | 30.5 30.4 | 30.5 | 8.1 8.1 | 8.1 | 12.6 12.3 | 12.4 | 87.2 84.2 | 85.7 | 6.1 5.9 | 6.0 | 5.8 | 3.3 3.4 | 3.4 | | 3.0 4.3 | 3.7 | |
| | | | | 11.2 | Middle | 5.6 | 28.7 28.5 | 28.6 | 8.0 8.0 | 8.0 | 16.3 17.4 | 16.8 | 80.8 78.1 | 79.5 | 5.7 5.5 | 5.6 | 3.0 | 3.4 3.4 | 3.4 | 3.5 | 2.9 3.7 | 3.3 | 3.5 |
| | | | | | Bottom | 10.2 | 28.2 28.4 | 28.3 | 8.0 8.0 | 8.0 | 19.3 18.8 | 19.1 | 76.4 79.3 | 77.9 | 5.4 5.6 | 5.5 | 5.5 | 3.6 3.7 | 3.7 | | 4.4 2.8 | 3.6 | |
| 26-Aug-16 | Sunny | Moderate | 06:58 | | Surface | 1.0 | 29.5 29.4 | 29.4 | 8.0 8.0 | 8.0 | 11.9 14.4 | 13.2 | 79.9 79.8 | 79.9 | 5.6 5.7 | 5.6 | 5.6 | 3.6 3.5 | 3.6 | | 3.9 4.2 | 4.1 | |
| | | | | 10.7 | Middle | 5.4 | 29.3 29.4 | 29.3 | 8.0 8.0 | 8.0 | 16.3 15.0 | 15.7 | 79.2 79.2 | 79.2 | 5.6 5.6 | 5.6 | 5.0 | 3.6 3.8 | 3.7 | 3.8 | 3.4 3.9 | 3.7 | 4.4 |
| | | | | | Bottom | 9.7 | 29.3 29.4 | 29.4 | 8.0 8.1 | 8.0 | 15.7 15.9 | 15.8 | 78.0 78.7 | 78.4 | 5.6 5.6 | 5.6 | 5.6 | 4.0 3.9 | 4.0 | | 5.7 5.1 | 5.4 | |
| 29-Aug-16 | Sunny | Moderate | 11:10 | | Surface | 1.0 | 27.8 27.8 | 27.8 | 8.2 8.2 | 8.2 | 20.4 20.3 | 20.3 | 96.4 84.6 | 90.5 | 6.8 5.9 | 6.3 | 6.2 | 3.2 3.3 | 3.3 | | 5.4 5.2 | 5.3 | |
| | | | | 11.0 | Middle | 5.5 | 27.8 27.7 | 27.8 | 8.2 8.2 | 8.2 | 20.6 20.6 | 20.6 | 82.0 92.7 | 87.4 | 5.8 6.5 | 6.1 | 0.2 | 3.6 3.4 | 3.5 | 3.5 | 5.4 3.9 | 4.7 | 6.0 |
| | | | | | Bottom | 10.0 | 27.7 27.7 | 27.7 | 8.2 8.2 | 8.2 | 20.9 21.1 | 21.0 | 81.1 88.5 | 84.8 | 5.7 6.2 | 5.9 | 5.9 | 3.6 3.5 | 3.6 | | 8.4 7.8 | 8.1 | |
| 31-Aug-16 | Sunny | Moderate | 11:55 | | Surface | 1.0 | 28.6 28.8 | 28.7 | 8.1 8.0 | 8.1 | 26.5 26.3 | 26.4 | 78.4 78.8 | 78.6 | 5.2 5.3 | 5.3 | 5.3 | 3.2 3.3 | 3.3 | _ | 4.1 3.5 | 3.8 | |
| | | | | 10.8 | Middle | 5.4 | 28.3 28.1 | 28.2 | 8.0 8.1 | 8.1 | 26.9 27.2 | 27.0 | 77.5 77.1 | 77.3 | 5.2 5.2 | 5.2 | 5.5 | 3.5 3.6 | 3.6 | 3.6 | 3.8 4.1 | 4.0 | 4.2 |
| | | | | | Bottom | 9.8 | 28.1 28.0 | 28.0 | 8.0 8.1 | 8.1 | 27.4 27.6 | 27.5 | 77.1 77.0 | 77.1 | 5.1 5.2 | 5.1 | 5.1 | 3.7 3.8 | 3.8 | | 4.7 4.9 | 4.8 | |

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

[^] As Tropical Cyclone Warning Signal No.3 or above was hoisted, water quality monitoring (except the monitoring locations named CSA, CS6, SR10B(N) and SR10A during Mid-Ebb Tide) was stopped according to the Contingency Plan for Impact Monitoring.

^{*} DA: Depth-Averaged

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at IS10 - Mid-FloodTide

| Date | Weather | Sea | Sampling | Water | Samp | ing | Tempera | ature (°C) | ī | Н | Salini | ty (ppt) | DO Satu | ration (%) | Dissol | ed Oxygen | (mg/L) | Т | urbidity(NT | U) | Suspe | nded Solids | (mg/L) |
|------------|-----------|-------------|----------|-----------|---------|------|--------------|------------|------------|---------|--------------|----------|--------------|------------|------------|-----------|--------|--------------|-------------|----------|--------------|-------------|----------|
| | Condition | Condition** | Time | Depth (m) | Depth | (m) | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | DA* | Value | Average | DA* | Value | Average | DA* |
| 1-Aug-16^ | Cloudy | Moderate | - | | Surface | | | - | - | - | - | - | | - | | - | | - | - | | - | - | |
| | | | | - | Middle | - | - | - | - | - | - | - | - | - | - | - | - | - | - | <u>-</u> | - | - | <u>-</u> |
| | | | | | Bottom | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | - | - | |
| 3-Aug-16 | Cloudy | Moderate | 06:07 | | Surface | 1.0 | 26.3 | 26.2 | 8.0 | 8.0 | 22.7 | 22.9 | 78.3 | 80.2 | 5.6 | 5.7 | | 10.0 | 10.0 | | 11.4 | 11.3 | |
| | | | | 11.1 | Middle | 5.6 | 26.1 26.0 | 26.0 | 8.0 8.0 | 8.0 | 23.1 24.3 | 24.0 | 82.0 79.3 | 78.3 | 5.8 5.6 | 5.6 | 5.7 | 9.9 | | 10.1 | 11.2 13.5 | 13.4 | 13.0 |
| | | | | 11.1 | | | 26.0 25.9 | | 8.0 8.0 | | 23.7 25.0 | | 77.2 79.2 | | 5.5 5.6 | | | 10.0 10.2 | 10.0 | 10.1 | 13.2 13.7 | | 13.0 |
| 5.4 - 40 | 0 | Ma Israela | 07.50 | | Bottom | 10.1 | 25.9 | 25.9 | 8.0 | 8.0 | 23.9 | 24.5 | 76.5 | 77.9 | 5.4 | 5.5 | 5.5 | 10.4 | 10.3 | | 14.8 | 14.3 | <u> </u> |
| 5-Aug-16 | Sunny | Moderate | 07:59 | | Surface | 1.0 | 26.2 26.3 | 26.2 | 7.9 7.9 | 7.9 | 25.0 24.9 | 25.0 | 76.9 76.5 | 76.7 | 5.4 5.3 | 5.3 | 5.3 | 8.4 8.4 | 8.4 | | 6.5 6.3 | 6.4 | |
| | | | | 12.0 | Middle | 6.0 | 26.0 26.1 | 26.1 | 7.9 7.9 | 7.9 | 26.4 26.1 | 26.2 | 76.1 76.3 | 76.2 | 5.3 5.3 | 5.3 | | 8.5 8.6 | 8.6 | 8.6 | 5.8 5.5 | 5.7 | 6.5 |
| | | | | | Bottom | 11.0 | 26.2 26.0 | 26.1 | 7.9 7.9 | 7.9 | 26.1 26.7 | 26.4 | 75.5 75.8 | 75.7 | 5.3 5.2 | 5.2 | 5.2 | 8.8 8.9 | 8.9 | | 6.8 7.7 | 7.3 | |
| 8-Aug-16 | Sunny | Moderate | 09:59 | | Surface | 1.0 | 28.8 28.8 | 28.8 | 8.0 8.0 | 8.0 | 18.2 18.2 | 18.2 | 84.1 82.7 | 83.4 | 5.9 5.7 | 5.8 | | 3.0 3.1 | 3.1 | | 1.7 2.1 | 1.9 | |
| | | | | 10.9 | Middle | 5.5 | 28.6 28.1 | 28.4 | 8.0 8.0 | 8.0 | 19.1 21.4 | 20.3 | 82.6 81.5 | 82.1 | 5.7 5.7 | 5.7 | 5.8 | 3.5 3.3 | 3.4 | 3.4 | 2.2 | 2.6 | 2.1 |
| | | | | | Bottom | 9.9 | 28.1 | 27.9 | 8.0 | 8.0 | 22.1 | 22.8 | 79.2 | 79.3 | 5.5 | 5.5 | 5.5 | 3.6 3.7 | 3.7 | | 1.9 | 1.7 | |
| 10-Aug-16 | Rainy | Moderate | 11:50 | | Surface | 1.0 | 27.7 27.3 | 27.2 | 8.0 7.9 | 7.9 | 23.5 26.6 | 27.4 | 79.4 79.4 | 79.4 | 5.6 5.5 | 5.4 | | 2.6 | 2.7 | | 1.4 | 1.7 | |
| | | | | 10.9 | Middle | 5.5 | 27.1 27.4 | 27.4 | 7.9 7.9 | 7.9 | 28.2 22.9 | 23.3 | 79.3 77.8 | 77.1 | 5.4 5.3 | 5.3 | 5.4 | 2.7 | 2.9 | 2.9 | 1.6 1.8 | 1.8 | 1.7 |
| | | | | 10.3 | | | 27.4 27.1 | | 7.9 7.9 | | 23.6 24.0 | | 76.4 77.0 | | 5.3 5.2 | | 5.0 | 2.8 3.0 | | 2.5 | 1.8 | | ''' |
| 12-Aug-16 | Fine | Moderate | 14:35 | | Bottom | 9.9 | 27.2 28.3 | 27.2 | 7.9 8.0 | 7.9 | 25.6 9.4 | 24.8 | 74.9 81.9 | 76.0 | 5.2 6.1 | 5.2 | 5.2 | 3.1 2.3 | 3.1 | | 1.5 2.3 | 1.6 | |
| 12 /lug 10 | 1 110 | Wioderate | 14.00 | | Surface | 1.0 | 28.5 27.0 | 28.4 | 8.0 7.8 | 8.0 | 8.9 18.1 | 9.2 | 80.4 78.7 | 81.2 | 5.9 5.6 | 6.0 | 5.8 | 2.2 | 2.3 | | 3.3 | 2.8 | . |
| | | | | 10.9 | Middle | 5.5 | 27.2 | 27.1 | 7.8 | 7.8 | 17.9 | 18.0 | 79.6 | 79.2 | 5.6 | 5.6 | | 2.5 | 2.5 | 2.4 | 3.4 | 3.2 | 3.0 |
| | | | | | Bottom | 9.9 | 27.4 26.8 | 27.1 | 7.8 7.8 | 7.8 | 20.3 20.2 | 20.3 | 76.2 76.4 | 76.3 | 5.5 5.5 | 5.5 | 5.5 | 2.5 2.4 | 2.5 | | 3.0 3.2 | 3.1 | |
| 15-Aug-16 | Cloudy | Moderate | 18:40 | | Surface | 1.0 | 27.3 27.3 | 27.3 | 8.2 8.2 | 8.2 | 22.0 21.3 | 21.7 | 91.3 91.3 | 91.3 | 6.4 6.3 | 6.3 | 6.3 | 3.9 4.2 | 4.1 | | 5.2 5.3 | 5.3 | |
| | | | | 11.4 | Middle | 5.7 | 26.8 26.7 | 26.7 | 8.1 8.1 | 8.1 | 25.0 24.4 | 24.7 | 88.9 89.9 | 89.4 | 6.2 6.2 | 6.2 | 6.3 | 4.5 4.6 | 4.6 | 4.5 | 5.6 5.9 | 5.8 | 5.9 |
| | | | | | Bottom | 10.4 | 26.4 26.6 | 26.5 | 8.1 8.1 | 8.1 | 27.3 26.9 | 27.1 | 83.5 83.9 | 83.7 | 5.8 5.8 | 5.8 | 5.8 | 4.7 4.8 | 4.8 | | 6.7 6.4 | 6.6 | |
| 17-Aug-16 | Rainy | Moderate | 19:06 | | Surface | 1.0 | 26.5 | 26.5 | 8.0 | 8.0 | 26.9 | 26.9 | 82.7 | 83.3 | 5.8 | 5.8 | | 4.5 | 4.6 | | 5.2 | 5.3 | |
| | | | | 10.7 | Middle | 5.4 | 26.5 26.2 | 26.2 | 8.0 8.0 | 8.0 | 26.9 27.7 | 27.6 | 83.9 81.2 | 82.2 | 5.8 5.7 | 5.7 | 5.8 | 4.6 | 4.8 | 4.7 | 5.3 4.8 | 5.1 | 5.1 |
| | | | | | Bottom | 9.7 | 26.3 26.0 | 26.1 | 8.0 8.0 | 8.0 | 27.5 28.4 | 28.3 | 83.2 79.3 | 80.2 | 5.8 5.5 | 5.6 | 5.6 | 4.7 4.8 | 4.8 | | 5.4 4.8 | 4.8 | |
| 19-Aug-16 | Fine | Moderate | 07:00 | <u> </u> | | | 26.3 26.2 | | 8.0 7.9 | | 28.2 28.5 | | 81.1 74.9 | | 5.6 5.3 | | 5.0 | 4.7 7.4 | | | 4.7 11.5 | | |
| | | | | | Surface | 1.0 | 26.1 26.0 | 26.2 | 8.0 7.9 | 7.9 | 28.6 29.0 | 28.5 | 74.5 73.8 | 74.7 | 5.2 5.2 | 5.2 | 5.2 | 7.4 7.6 | 7.4 | | 12.7 10.8 | 12.1 | |
| | | | | 10.5 | Middle | 5.3 | 26.1 | 26.0 | 7.9 | 7.9 | 28.7 | 28.9 | 73.9 | 73.9 | 5.2 | 5.2 | | 7.7 | 7.7 | 7.7 | 12.3 | 11.6 | 11.7 |
| | | | | | Bottom | 9.5 | 26.0 26.0 | 26.0 | 8.0 7.9 | 7.9 | 28.9 29.1 | 29.0 | 73.4 73.2 | 73.3 | 5.2 5.1 | 5.1 | 5.1 | 7.8 7.9 | 7.9 | | 10.6 12.2 | 11.4 | <u> </u> |

Remarks:

* DA: Depth-Averaged

** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at IS10 - Mid-FloodTide

| Date | Weather | Sea | Sampling | Water | Samp | ling | Tempera | ature (°C) | | ЭΗ | Salini | ty (ppt) | DO Satu | ration (%) | Dissol | ved Oxygen | (mg/L) | 1 | urbidity(NT | J) | Susper | nded Solids | (mg/L) |
|-----------|-----------|-------------|----------|-----------|---------|------|--------------|------------|------------|---------|--------------|----------|--------------|------------|------------|------------|--------|------------|-------------|-----|--------------|-------------|--------|
| | Condition | Condition** | Time | Depth (m) | Depth | (m) | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | DA* | Value | Average | DA* | Value | Average | DA* |
| 22-Aug-16 | Sunny | Moderate | 09:26 | | Surface | 1.0 | 27.9 28.0 | 27.9 | 7.9 7.9 | 7.9 | 21.5 21.0 | 21.2 | 75.2 74.7 | 75.0 | 5.2 5.2 | 5.2 | 5.2 | 6.3 6.4 | 6.4 | | 4.6 4.8 | 4.7 | |
| | | | | 10.8 | Middle | 5.4 | 27.8 27.8 | 27.8 | 7.9 7.9 | 7.9 | 22.3 22.2 | 22.3 | 74.2 74.0 | 74.1 | 5.2 5.2 | 5.2 | 0.2 | 6.6 6.7 | 6.7 | 6.6 | 5.0 4.7 | 4.9 | 5.2 |
| | | | | | Bottom | 9.8 | 27.7 27.7 | 27.7 | 7.8 7.9 | 7.8 | 23.4 23.4 | 23.4 | 73.3 73.4 | 73.4 | 5.1 5.1 | 5.1 | 5.1 | 6.7 6.8 | 6.8 | | 6.1 5.6 | 5.9 | |
| 24-Aug-16 | Sunny | Moderate | 11:16 | | Surface | 1.0 | 28.6 28.4 | 28.5 | 8.0 7.9 | 7.9 | 22.0 22.2 | 22.1 | 78.3 77.0 | 77.7 | 5.4 5.3 | 5.3 | 5.3 | 3.7 3.6 | 3.7 | | 4.8 4.9 | 4.9 | |
| | | | | 11.2 | Middle | 5.6 | 28.2 28.0 | 28.1 | 7.9 7.9 | 7.9 | 23.4 23.6 | 23.5 | 74.9 76.7 | 75.8 | 5.1 5.2 | 5.2 | 0.0 | 3.7 3.8 | 3.8 | 3.8 | 4.3 3.3 | 3.8 | 4.5 |
| | | | | | Bottom | 10.2 | 27.8 28.0 | 27.9 | 7.9 7.9 | 7.9 | 25.8 24.8 | 25.3 | 75.7 74.8 | 75.3 | 5.2 5.1 | 5.1 | 5.1 | 3.8 4.0 | 3.9 | | 4.7 5.1 | 4.9 | |
| 26-Aug-16 | Sunny | Moderate | 13:36 | | Surface | 1.0 | 29.6 29.8 | 29.7 | 7.9 8.0 | 8.0 | 11.2 9.9 | 10.5 | 78.9 80.1 | 79.5 | 5.7 5.7 | 5.7 | 5.7 | 4.2 4.1 | 4.2 | | 5.1 5.1 | 5.1 | |
| | | | | 10.9 | Middle | 5.5 | 29.5 29.2 | 29.3 | 7.9 7.8 | 7.9 | 17.5 17.2 | 17.3 | 77.9 79.4 | 78.7 | 5.6 5.6 | 5.6 | 3.7 | 4.4 4.5 | 4.5 | 4.4 | 5.2 4.5 | 4.9 | 4.9 |
| | | | | | Bottom | 9.9 | 29.9 29.1 | 29.5 | 8.0 7.8 | 7.9 | 17.4 17.5 | 17.4 | 79.2 79.9 | 79.6 | 5.5 5.6 | 5.5 | 5.5 | 4.5 4.6 | 4.6 | | 4.9 4.5 | 4.7 | |
| 29-Aug-16 | Sunny | Moderate | 17:24 | | Surface | 1.0 | 27.8 27.7 | 27.8 | 8.2 8.2 | 8.2 | 19.8 20.1 | 20.0 | 81.8 80.8 | 81.3 | 5.7 5.6 | 5.7 | 5.7 | 6.0 6.0 | 6.0 | | 6.7 5.5 | 6.1 | |
| | | | | 11.1 | Middle | 5.6 | 27.6 27.5 | 27.5 | 8.2 8.2 | 8.2 | 20.5 20.8 | 20.7 | 81.0 79.2 | 80.1 | 5.7 5.6 | 5.6 | 3.7 | 6.1 6.0 | 6.1 | 6.1 | 6.4 6.8 | 6.6 | 7.8 |
| | | | | | Bottom | 10.1 | 27.5 27.6 | 27.6 | 8.2 8.2 | 8.2 | 22.0 21.8 | 21.9 | 78.0 78.7 | 78.4 | 5.5 5.5 | 5.5 | 5.5 | 6.0 6.3 | 6.2 | | 10.2 11.0 | 10.6 | |
| 31-Aug-16 | Sunny | Moderate | 19:34 | | Surface | 1.0 | 28.6 28.6 | 28.6 | 8.0 8.1 | 8.1 | 24.8 24.0 | 24.4 | 76.3 76.9 | 76.6 | 5.2 5.2 | 5.2 | 5.2 | 5.7 5.6 | 5.7 | | 7.0 6.3 | 6.7 | |
| | | | | 10.8 | Middle | 5.4 | 28.5 28.6 | 28.5 | 8.1 8.0 | 8.1 | 24.6 25.1 | 24.9 | 75.9 75.6 | 75.8 | 5.2 5.1 | 5.2 | 5.2 | 5.8 5.9 | 5.9 | 5.9 | 7.5 6.6 | 7.1 | 6.9 |
| | | | | | Bottom | 9.8 | 28.5 28.3 | 28.4 | 8.0 8.0 | 8.0 | 26.5 26.0 | 26.3 | 75.2 75.5 | 75.4 | 5.1 5.1 | 5.1 | 5.1 | 6.2 6.1 | 6.2 | | 7.4 6.6 | 7.0 | |

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

[^] As Tropical Cyclone Warning Signal No.3 or above was hoisted, water quality monitoring (except the monitoring locations named CSA, CS6, SR10B(N) and SR10A during Mid-Ebb Tide) was stopped according to the Contingency Plan for Impact Monitoring.

^{*} DA: Depth-Averaged

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at IS(Mf)11 - Mid-EbbTide

| Date | Weather | Sea | Sampling | Water | Samp | ling | Tempera | ature (°C) | F | Н | Salini | ty (ppt) | DO Satu | ration (%) | Dissol | ved Oxygen | (mg/L) | Т | urbidity(NTl | J) | Suspe | nded Solids | (mg/L) |
|-----------|-----------------|-------------|----------|-----------|---------|------|----------------------|--------------|------------|------------|--------------|----------|--------------|--------------|-------------------|------------|--------|------------|--------------|-----|--------------|-------------|----------|
| | Condition | Condition** | Time | Depth (m) | Depth | (m) | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | DA* | Value | Average | DA* | Value | Average | DA* |
| 1-Aug-16^ | Cloudy | Moderate | - | | Surface | - | - | - | - | - | - | - | - | - | - | - | | - | - | | - | - | |
| | | | | - | Middle | - | - | - | - | - | - | - | - | - | - | - | - | - | - | = | - | - | = |
| | | | | | Bottom | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | - | - | |
| 3-Aug-16 | Cloudy | Moderate | 13:06 | | Surface | 1.0 | 26.1 26.1 | 26.1 | 8.0 8.0 | 8.0 | 23.3 25.4 | 24.3 | 78.9 81.1 | 80.0 | 5.6 5.7 | 5.6 | | 8.7 8.6 | 8.7 | | 9.1 9.3 | 9.2 | |
| | | | | 11.1 | Middle | 5.6 | 25.9 25.9 | 25.9 | 8.0 8.0 | 8.0 | 24.2 27.0 | 25.6 | 78.9 79.7 | 79.3 | 5.6 | 5.6 | 5.6 | 8.7 8.8 | 8.8 | 8.8 | 8.9 9.3 | 9.1 | 8.8 |
| | | | | | Bottom | 10.1 | 25.9 25.9 25.9 | 25.9 | 8.0 | 8.0 | 24.9 27.2 | 26.0 | 77.4 79.5 | 78.5 | 5.6 5.5 5.5 | 5.5 | 5.5 | 8.9 | 8.9 | | 8.2 7.9 | 8.1 | İ |
| 5-Aug-16 | Sunny | Moderate | 14:39 | | Surface | 1.0 | 27.6 | 27.5 | 7.9 | 8.0 | 23.3 | 23.3 | 77.4 | 77.3 | 5.4 | 5.4 | | 4.1 | 4.2 | | 2.2 | 2.7 | |
| | | | | 11.9 | Middle | 6.0 | 27.5 27.4 | 27.1 | 7.9 | 7.9 | 23.4 | 23.8 | 77.1 75.2 | 75.4 | 5.4 5.3 | 5.3 | 5.4 | 4.2 | 4.3 | 4.4 | 3.1 | 3.9 | 3.2 |
| | | | | | Bottom | 10.9 | 26.7 27.3 | 26.9 | 7.9 7.9 | 7.9 | 24.1 24.1 | 25.0 | 75.5 74.4 | 74.7 | 5.3 5.2 | 5.2 | 5.2 | 4.3 4.5 | 4.6 | | 4.5 2.5 | 3.1 | İ |
| 8-Aug-16 | Sunny | Moderate | 16:16 | | Surface | 1.0 | 26.4 29.0 | 29.2 | 7.9 8.0 | 8.0 | 25.8 18.5 | 18.6 | 74.9 98.0 | 98.4 | 5.2 6.8 | 6.8 | | 4.6 2.7 | 2.7 | | 3.7 6.2 | 7.3 | |
| | | | | 10.7 | Middle | 5.4 | 29.4 28.5 | 28.7 | 7.9 | 7.9 | 18.8 19.1 | 19.0 | 98.7 94.7 | 94.2 | 6.8 6.6 | 6.5 | 6.7 | 2.6 | 2.8 | 2.9 | 8.3 4.4 | 3.5 | 4.6 |
| | | | | | Bottom | 9.7 | 28.8 28.4 | 28.5 | 7.9 7.9 | 7.9 | 18.8 21.8 | 20.8 | 93.6 91.7 | 90.9 | 6.5 6.4 | 6.3 | 6.3 | 2.8 3.2 | 3.2 | | 2.5 3.2 | 3.0 | İ |
| 10-Aug-16 | Rainy | Moderate | 17:38 | | Surface | 1.0 | 28.7 28.0 | 28.0 | 7.9 8.0 | 8.1 | 19.9 20.6 | 20.2 | 90.1 87.5 | 87.3 | 6.3 6.1 | 6.1 | | 3.1 1.7 | 1.7 | | 2.8 1.4 | 1.5 | |
| | | | | 10.9 | Middle | 5.5 | 28.1 27.6 | 27.6 | 8.1 8.0 | 8.0 | 19.8 21.1 | 21.1 | 87.1 86.0 | 86.7 | 6.1 | 6.0 | 6.1 | 1.6 | 1.8 | 1.8 | 1.5 | 1.3 | 1.5 |
| | | | | 10.5 | Bottom | 9.9 | 27.6 27.3 | 27.4 | 8.0 | 8.0 | 21.1 26.2 | 25.8 | 87.3 85.5 | 86.1 | 6.0 6.0 | 6.0 | 6.0 | 1.8 1.9 | 1.9 | 1.0 | 1.2 1.6 | 1.7 | 1.0 |
| 12-Aug-16 | Rainy | Moderate | 07:52 | | Surface | 1.0 | 27.5 27.6 | 27.4 | 8.0 | 8.0 | 25.4 19.5 | 19.6 | 86.7 81.7 | 83.5 | 5.9 5.8 | 5.8 | 0.0 | 1.9 | 1.4 | | 1.7 2.8 | 2.5 | |
| | | | | 11.1 | Middle | 5.6 | 27.3 26.5 | 26.6 | 8.0 7.9 | 7.9 | 19.7 23.7 | 23.5 | 85.3 79.6 | 78.9 | 5.9 5.5 | 5.5 | 5.7 | 1.4 | 1.4 | 1.4 | 3.2 | 3.3 | 2.8 |
| | | | | 11.1 | Bottom | 10.1 | 26.7 26.2 | 26.2 | 7.9 7.8 | 7.9 | 23.3 27.9 | 28.0 | 78.2 74.2 | 76.4 | 5.5 5.2 | 5.4 | 5.4 | 1.4 1.4 | 1.4 | 1.4 | 3.3 2.8 | 2.6 | 2.0 |
| 15-Aug-16 | Cloudy | Moderate | 10:14 | | | | 26.2 27.5 | | 7.9 8.0 | | 28.0 21.5 | | 78.6 73.7 | | 5.5 5.3 | | 3.4 | 1.4 4.3 | | | 2.3 4.9 | | |
| · · | , | | | 44.4 | Surface | 5.6 | 27.3 26.0 | 27.4 25.9 | 8.0 7.9 | 8.0 7.9 | 22.0 26.7 | 21.8 | 73.6 72.3 | 73.7 72.4 | 5.3 5.2 | 5.3 5.2 | 5.3 | 4.4 | 4.4 | 4.0 | 6.2 4.9 | 5.6 | 5.0 |
| | | | | 11.1 | Middle | | 25.8 25.7 | | 7.9 7.9 | | 27.3 29.2 | | 72.4 71.3 | | 5.2 5.1 | | | 4.5 4.9 | 4.6 | 4.6 | 5.1 5.0 | 5.0 | 5.2 |
| 17-Aug-16 | Rainy | Moderate | 12:06 | | Bottom | 10.1 | 25.6 26.1 | 25.7 | 7.9 8.0 | 7.9 | 29.2 27.6 | 29.2 | 71.6 75.2 | 71.5 | 5.1 5.2 | 5.1 | 5.1 | 4.7 | 4.8 | | 4.8 3.0 | 4.9 | |
| / tag . c | · · · · · · · · | moderate | 12.00 | | Surface | 1.0 | 25.8 25.3 | 26.0 | 7.9 7.9 | 8.0 | 28.1 | 27.9 | 75.4 74.3 | 75.3 | 5.2 5.2 | 5.2 | 5.2 | 4.8 | 4.8 | | 2.6 | 2.8 | 1 |
| | | | | 10.4 | Middle | 5.2 | 25.3 25.3 | 25.3 | 7.9 7.9 | 7.9 | 30.0 30.4 | 30.0 | 71.8 70.2 | 73.1 | 5.0 | 5.1 | | 6.2 | 6.2 | 5.7 | 2.8 | 3.3 | 3.2 |
| 19-Aug-16 | Fine | Moderate | 13:37 | <u> </u> | Bottom | 9.4 | 25.4 26.7 | 25.4 | 7.9 8.1 | 7.9 | 30.3 | 30.3 | 71.4 82.6 | 70.8 | 5.0 5.7 | 4.9 | 4.9 | 6.2 | 6.2 | | 3.6 | 3.6 | <u> </u> |
| 13-Aug-10 | i ilie | Moderate | 13.37 | | Surface | 1.0 | 26.6 26.6 | 26.7 | 8.1 8.1 | 8.1 | 27.7 27.9 | 27.2 | 81.5 80.2 | 82.1 | 5.6 5.5 | 5.6 | 5.6 | 5.3 5.5 | 5.2 | | 1.8 | 2.0 | l |
| | | | | 10.3 | Middle | 5.2 | 26.4 | 26.5 | 8.1 | 8.1 | 27.6 27.9 | 27.8 | 81.4 79.0 | 80.8 | 5.5 5.5 | 5.5 | | 5.4 5.7 | 5.5 | 5.5 | 3.0 | 2.6 | 5.1 |
| | | | | | Bottom | 9.3 | 26.4 26.2 | 26.3 | 8.1 8.1 | 8.1 | 27.9 29.0 | 28.4 | 79.0 78.3 | 78.7 | 5.5 5.4 | 5.4 | 5.4 | 5.7 5.8 | 5.8 | | 10.2 11.1 | 10.7 | |

Remarks:

* DA: Depth-Averaged

** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at IS(Mf)11 - Mid-EbbTide

| Date | Weather | Sea | Sampling | Water | Samp | ling | Tempera | ature (°C) | ŗ | Н | Salini | ty (ppt) | DO Satu | ration (%) | Dissolv | ed Oxygen | (mg/L) | Т | urbidity(NTI | J) | Susper | nded Solids | (mg/L) |
|-----------|-----------|-------------|----------|-----------|---------|------|--------------|------------|------------|---------|--------------|----------|--------------|------------|------------|-----------|--------|------------|--------------|-----|------------|-------------|--------|
| | Condition | Condition** | Time | Depth (m) | Depth | (m) | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | DA* | Value | Average | DA* | Value | Average | DA* |
| 22-Aug-16 | Sunny | Moderate | 15:40 | | Surface | 1.0 | 28.1 28.0 | 28.1 | 7.9 8.0 | 8.0 | 23.1 23.4 | 23.3 | 77.7 77.6 | 77.7 | 5.4 5.4 | 5.4 | 5.4 | 7.3 7.1 | 7.2 | | 4.0 4.3 | 4.2 | |
| | | | | 10.7 | Middle | 5.4 | 27.6 27.7 | 27.7 | 7.9 8.0 | 8.0 | 24.4 23.8 | 24.1 | 77.2 77.0 | 77.1 | 5.4 5.4 | 5.4 | 5.4 | 7.5 7.4 | 7.5 | 7.5 | 4.8 6.4 | 5.6 | 6.1 |
| | | | | | Bottom | 9.7 | 27.6 27.7 | 27.6 | 8.0 7.9 | 8.0 | 24.8 24.7 | 24.7 | 76.3 76.6 | 76.5 | 5.3 5.3 | 5.3 | 5.3 | 7.7 7.7 | 7.7 | | 8.7 8.0 | 8.4 | |
| 24-Aug-16 | Sunny | Moderate | 16:44 | | Surface | 1.0 | 29.4 29.2 | 29.3 | 8.1 8.1 | 8.1 | 14.3 15.9 | 15.1 | 77.5 80.1 | 78.8 | 5.5 5.6 | 5.5 | 5.4 | 3.2 3.3 | 3.3 | | 2.6 3.1 | 2.9 | |
| | | | | 11.2 | Middle | 5.6 | 28.4 28.2 | 28.3 | 8.0 8.0 | 8.0 | 19.3 17.2 | 18.3 | 77.3 75.4 | 76.4 | 5.3 5.3 | 5.3 | 0 | 3.4 3.3 | 3.4 | 3.4 | 3.2 3.6 | 3.4 | 3.3 |
| | | | | | Bottom | 10.2 | 28.0 28.1 | 28.1 | 8.0 8.0 | 8.0 | 23.5 20.1 | 21.8 | 75.4 74.9 | 75.2 | 5.3 5.3 | 5.3 | 5.3 | 3.4 3.5 | 3.5 | | 3.3 4.0 | 3.7 | |
| 26-Aug-16 | Sunny | Moderate | 06:45 | | Surface | 1.0 | 29.4 29.4 | 29.4 | 7.9 7.9 | 7.9 | 15.9 15.9 | 15.9 | 76.1 76.7 | 76.4 | 5.3 5.4 | 5.3 | 5.3 | 3.7 3.6 | 3.7 | | 5.0 4.4 | 4.7 | |
| | | | | 10.8 | Middle | 5.4 | 29.3 29.3 | 29.3 | 7.9 7.9 | 7.9 | 16.8 16.4 | 16.6 | 76.9 76.1 | 76.5 | 5.3 5.3 | 5.3 | 5.5 | 3.7 3.7 | 3.7 | 3.8 | 5.0 4.8 | 4.9 | 4.8 |
| | | | | | Bottom | 9.8 | 29.3 29.3 | 29.3 | 7.9 7.9 | 7.9 | 18.1 17.4 | 17.8 | 75.6 76.1 | 75.9 | 5.3 5.3 | 5.3 | 5.3 | 3.9 3.9 | 3.9 | | 4.4 4.9 | 4.7 | |
| 29-Aug-16 | Sunny | Moderate | 11:00 | | Surface | 1.0 | 27.6 27.6 | 27.6 | 8.2 8.2 | 8.2 | 24.4 24.6 | 24.5 | 78.8 77.9 | 78.4 | 5.4 5.4 | 5.4 | 5.4 | 4.1 4.0 | 4.1 | | 6.3 7.3 | 6.8 | |
| | | | | 11.0 | Middle | 5.5 | 27.5 27.5 | 27.5 | 8.2 8.2 | 8.2 | 25.1 24.8 | 24.9 | 77.7 76.4 | 77.1 | 5.3 5.3 | 5.3 | 5.4 | 4.4 4.2 | 4.3 | 4.3 | 6.5 7.4 | 7.0 | 7.2 |
| | | | | | Bottom | 10.0 | 27.5 27.5 | 27.5 | 8.1 8.1 | 8.1 | 25.6 25.7 | 25.7 | 76.2 76.6 | 76.4 | 5.2 5.3 | 5.3 | 5.3 | 4.3 4.6 | 4.5 | | 7.5 7.8 | 7.7 | |
| 31-Aug-16 | Sunny | Moderate | 11:42 | | Surface | 1.0 | 27.8 27.8 | 27.8 | 8.1 8.1 | 8.1 | 28.2 28.2 | 28.2 | 76.1 77.2 | 76.7 | 5.1 5.2 | 5.1 | 5.1 | 7.1 7.2 | 7.2 | _ | 5.0 4.6 | 4.8 | |
| | | | | 10.9 | Middle | 5.5 | 27.6 27.7 | 27.7 | 8.1 8.1 | 8.1 | 29.0 29.3 | 29.1 | 75.4 75.6 | 75.5 | 5.1 5.1 | 5.1 | J. I | 7.2 7.2 | 7.2 | 7.3 | 5.0 5.4 | 5.2 | 5.2 |
| | | | | | Bottom | 9.9 | 27.5 27.6 | 27.6 | 8.0 8.1 | 8.1 | 30.0 30.1 | 30.1 | 75.9 75.8 | 75.9 | 5.1 5.1 | 5.1 | 5.1 | 7.3 7.4 | 7.4 | | 5.2 6.0 | 5.6 | |

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

[^] As Tropical Cyclone Warning Signal No.3 or above was hoisted, water quality monitoring (except the monitoring locations named CSA, CS6, SR10B(N) and SR10A during Mid-Ebb Tide) was stopped according to the Contingency Plan for Impact Monitoring.

^{*} DA: Depth-Averaged

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at IS(Mf)11 - Mid-FloodTide

| Date | Weather | Sea | Sampling | Water | Samp | ling | Temper | ature (°C) | | Н | Salini | ty (ppt) | DO Satu | ration (%) | Dissol | ved Oxygen | (mg/L) | Т | urbidity(NT | J) | Suspe | nded Solids | (mg/L) |
|-----------|-----------|-------------|----------|-----------|---------|------|----------------------|------------|-------------------|---------|----------------------|----------|----------------------|------------|-------------------|------------|--------|----------------------|-------------|------|---------------------|-------------|--------|
| | Condition | Condition** | Time | Depth (m) | Depth | (m) | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | DA* | Value | Average | DA* | Value | Average | DA* |
| 1-Aug-16^ | Cloudy | Moderate | - | | Surface | - | - | - | - | - | - | - | - | - | - | - | | - | - | | - | - | |
| | | | | - | Middle | - | - | - | - | - | - | - | - | - | - | - | - | - | - | = | - | - | |
| | | | | | Bottom | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | - | - | |
| 3-Aug-16 | Cloudy | Moderate | 05:56 | | Surface | 1.0 | 26.0 26.1 | 26.1 | 8.0 8.0 | 8.0 | 26.8 26.5 | 26.7 | 78.3 78.7 | 78.5 | 5.5 5.5 | 5.5 | | 7.5 7.6 | 7.6 | | 10.0 11.0 | 10.5 | |
| | | | | 11.0 | Middle | 5.5 | 26.0 26.0 | 26.0 | 8.0 8.0 | 8.0 | 27.1 27.1 | 27.1 | 78.1 77.6 | 77.9 | 5.4 5.4 | 5.4 | 5.5 | 7.7 | 7.7 | 7.7 | 11.3 11.5 | 11.4 | 11.2 |
| | | | | | Bottom | 10.0 | 26.0 25.9 | 26.0 | 8.0 8.0 | 8.0 | 27.1 27.4 | 27.2 | 77.5 78.1 | 77.8 | 5.4 5.4 | 5.4 | 5.4 | 7.9 7.8 | 7.9 | | 12.3 | 11.8 | 1 |
| 5-Aug-16 | Sunny | Moderate | 07:50 | | Surface | 1.0 | 26.9 | 26.9 | 7.9 | 7.9 | 23.0 | 23.0 | 76.4 | 76.6 | 5.3 | 5.3 | | 6.5 | 6.5 | | 2.9 | 3.2 | |
| | | | | 12.0 | Middle | 6.0 | 26.9 26.5 | 26.6 | 7.9 7.9 | 7.9 | 23.0 23.4 23.4 | 23.4 | 76.8 75.4 75.8 | 75.6 | 5.4 5.3 5.3 | 5.3 | 5.3 | 6.4 6.6 6.6 | 6.6 | 6.6 | 3.5 5.1 | 5.1 | 4.9 |
| | | | | | Bottom | 11.0 | 26.6 26.1 | 26.3 | 7.9 7.9 | 7.9 | 26.1 | 26.0 | 75.2 | 75.0 | 5.2 | 5.2 | 5.2 | 6.8 | 6.8 | | 5.0 6.1 | 6.4 | 1 |
| 8-Aug-16 | Sunny | Moderate | 09:49 | | Surface | 1.0 | 26.6 28.2 | 28.2 | 7.9 8.0 | 8.0 | 25.9 22.0 | 22.0 | 74.8 82.0 | 82.0 | 5.2 5.7 | 5.7 | | 2.9 | 3.0 | | 6.6 4.1 | 4.3 | |
| | | | | 10.8 | Middle | 5.4 | 28.2 | 27.9 | 8.0 | 8.0 | 22.0 22.1 | 22.2 | 82.0 80.1 | 80.1 | 5.6 5.5 | 5.5 | 5.6 | 3.1 | 3.3 | 3.3 | 3.3 | 3.6 | 3.7 |
| | | | | | Bottom | 9.8 | 27.8 27.6 27.7 | 27.6 | 8.0 | 8.0 | 22.2 | 24.2 | 80.1 79.5 77.2 | 78.4 | 5.6 5.5 | 5.4 | 5.4 | 3.3 3.5 3.4 | 3.5 | | 3.9 3.3 3.2 | 3.3 | 1 |
| 10-Aug-16 | Rainy | Moderate | 11:41 | | Surface | 1.0 | 27.4 | 27.4 | 7.9 7.9 | 7.9 | 23.8 | 22.3 | 75.3 | 75.1 | 5.4 | 5.3 | | 5.5 | 5.4 | | 0.8 | 0.8 | |
| | | | | 10.9 | Middle | 5.5 | 27.5 27.0 | 27.0 | 7.8 | 7.8 | 22.3 | 24.9 | 74.9 74.2 | 74.4 | 5.3 5.2 | 5.3 | 5.3 | 5.3 5.5 | 5.6 | 5.6 | 1.2 | 1.3 | 1.1 |
| | | | | | Bottom | 9.9 | 26.9 26.7 26.9 | 26.8 | 7.8 7.8 7.8 | 7.8 | 24.9 27.4 26.7 | 27.1 | 74.5 73.4 73.8 | 73.6 | 5.3 5.1 5.2 | 5.1 | 5.1 | 5.6 5.7 5.8 | 5.8 | | 1.3 1.1 1.3 | 1.2 | 1 |
| 12-Aug-16 | Fine | Moderate | 14:46 | | Surface | 1.0 | 28.5 | 28.3 | 8.0 | 8.0 | 8.1 | 8.8 | 90.2 | 88.0 | 6.7 | 6.5 | | 2.3 | 2.3 | | 2.9 | 2.5 | |
| | | | | 11.0 | Middle | 5.5 | 28.2 27.8 27.7 | 27.8 | 7.9 7.9 | 7.9 | 9.5 12.3 12.0 | 12.1 | 85.8 80.9 87.1 | 84.0 | 6.4 5.8 6.3 | 6.1 | 6.3 | 2.2 2.3 2.3 | 2.3 | 2.4 | 2.1 2.2 2.5 | 2.4 | 2.7 |
| | | | | | Bottom | 10.0 | 26.5 26.6 | 26.6 | 7.9 7.8 7.8 | 7.8 | 19.4 19.0 | 19.2 | 77.3 80.6 | 79.0 | 5.7 5.9 | 5.8 | 5.8 | 2.5 2.4 | 2.5 | | 3.6 3.0 | 3.3 | 1 |
| 15-Aug-16 | Cloudy | Moderate | 18:53 | | Surface | 1.0 | 26.7 | 26.7 | 8.1 | 8.0 | 25.9 | 25.9 | 87.2 | 87.5 | 6.0 | 6.1 | | 6.2 | 6.2 | | 7.3 | 7.6 | |
| | | | | 11.1 | Middle | 5.6 | 26.7 26.6 26.5 | 26.5 | 8.0 8.0 8.0 | 8.0 | 26.0 26.1 26.3 | 26.2 | 87.8 83.3 83.4 | 83.4 | 6.1 5.8 5.7 | 5.7 | 5.9 | 6.1 6.2 6.3 | 6.3 | 6.3 | 7.8 7.0 7.4 | 7.2 | 8.1 |
| | | | | | Bottom | 10.1 | 26.4 26.7 | 26.6 | 8.0 8.0 | 8.0 | 27.5 27.0 | 27.2 | 80.2 80.3 | 80.3 | 5.6 5.6 | 5.6 | 5.6 | 6.4 | 6.5 | | 9.4 9.7 | 9.6 | 1 |
| 17-Aug-16 | Rainy | Moderate | 19:17 | | Surface | 1.0 | 26.5 26.3 | 26.4 | 8.1 8.1 | 8.1 | 26.8 27.0 | 26.9 | 88.3 84.5 | 86.4 | 6.1 5.9 | 6.0 | | 10.1 | 10.4 | | 10.6 9.5 | 10.1 | |
| | | | | 10.8 | Middle | 5.4 | 25.9 | 25.9 | 8.0 8.0 | 8.0 | 28.7 | 28.6 | 76.4 | 74.4 | 5.3 | 5.2 | 5.6 | 10.5 | 10.4 | 10.4 | 10.5 | 10.1 | 11.0 |
| | | | | | Bottom | 9.8 | 26.0 26.2 26.0 | 26.1 | 8.0 8.0 | 8.0 | 28.6 28.6 28.9 | 28.8 | 72.3 72.1 75.0 | 73.6 | 5.0 5.0 5.2 | 5.1 | 5.1 | 10.3 10.4 10.2 | 10.3 | | 9.7 12.7 12.7 | 12.7 | 1 |
| 19-Aug-16 | Fine | Moderate | 06:49 | | Surface | 1.0 | 26.0 26.2 26.2 | 26.2 | 7.9 7.9 | 7.9 | 28.9 28.1 28.1 | 28.1 | 75.0 75.0 74.4 | 74.7 | 5.2 5.1 | 5.2 | | 4.2 4.2 | 4.2 | | 7.2 7.5 | 7.4 | |
| | | | | 10.3 | Middle | 5.2 | 26.2 | 26.2 | 7.9 7.9 7.9 | 7.9 | 28.1 | 28.1 | 74.4 74.3 74.3 | 74.3 | 5.1 | 5.1 | 5.2 | 4.3 | 4.3 | 4.4 | 6.6 | 7.1 | 8.6 |
| | | | | | Bottom | 9.3 | 26.2 26.2 26.2 | 26.2 | 7.9 7.9 7.9 | 7.9 | 28.1 28.1 28.1 | 28.1 | 74.3 73.9 73.9 | 73.9 | 5.1 5.1 5.1 | 5.1 | 5.1 | 4.3 4.5 4.6 | 4.6 | | 7.5 10.6 11.8 | 11.2 | 1 |

Remarks:

* DA: Depth-Averaged

** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at IS(Mf)11 - Mid-FloodTide

| Date | Weather | Sea | Sampling | Water | Samp | ling | Tempera | ature (°C) | | ρΗ | Salini | ty (ppt) | DO Satu | ration (%) | Dissol | ved Oxygen | (mg/L) | 1 | urbidity(NT | J) | Suspe | nded Solids | (mg/L) |
|-----------|-----------|-------------|----------|-----------|---------|------|--------------|------------|------------|---------|--------------|----------|--------------|------------|------------|------------|--------|------------|-------------|-----|--------------|-------------|--------|
| | Condition | Condition** | Time | Depth (m) | Depth | (m) | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | DA* | Value | Average | DA* | Value | Average | DA* |
| 22-Aug-16 | Sunny | Moderate | 09:16 | | Surface | 1.0 | 27.8 27.8 | 27.8 | 7.8 7.8 | 7.8 | 23.1 22.9 | 23.0 | 75.4 75.8 | 75.6 | 5.3 5.3 | 5.3 | 5.3 | 3.6 3.6 | 3.6 | | 6.4 5.5 | 6.0 | |
| | | | | 10.7 | Middle | 5.4 | 27.8 27.7 | 27.8 | 7.8 7.8 | 7.8 | 23.3 23.5 | 23.4 | 75.1 75.2 | 75.2 | 5.2 5.2 | 5.2 | 0.0 | 3.7 3.6 | 3.7 | 3.7 | 6.0 5.8 | 5.9 | 5.9 |
| | | | | | Bottom | 9.7 | 27.8 27.8 | 27.8 | 7.8 7.8 | 7.8 | 24.1 23.4 | 23.7 | 74.8 74.4 | 74.6 | 5.2 5.2 | 5.2 | 5.2 | 3.8 3.9 | 3.9 | | 5.8 5.5 | 5.7 | |
| 24-Aug-16 | Sunny | Moderate | 11:06 | | Surface | 1.0 | 28.4 28.4 | 28.4 | 7.9 7.9 | 7.9 | 23.3 23.2 | 23.2 | 78.0 80.9 | 79.5 | 5.3 5.5 | 5.4 | 5.4 | 3.8 3.8 | 3.8 | | 4.4 5.4 | 4.9 | |
| | | | | 11.1 | Middle | 5.6 | 28.2 28.1 | 28.1 | 7.9 7.9 | 7.9 | 23.7 23.6 | 23.7 | 77.4 77.7 | 77.6 | 5.2 5.3 | 5.3 | 0.4 | 3.8 4.0 | 3.9 | 3.9 | 4.8 6.2 | 5.5 | 5.4 |
| | | | | | Bottom | 10.1 | 27.8 28.1 | 28.0 | 7.9 7.9 | 7.9 | 26.2 26.2 | 26.2 | 75.4 76.0 | 75.7 | 5.2 5.2 | 5.2 | 5.2 | 4.0 4.1 | 4.1 | | 5.3 6.1 | 5.7 | |
| 26-Aug-16 | Sunny | Moderate | 13:45 | | Surface | 1.0 | 30.0 29.7 | 29.8 | 8.0 7.9 | 7.9 | 11.2 12.8 | 12.0 | 81.3 81.1 | 81.2 | 5.7 5.6 | 5.7 | 5.7 | 3.4 3.3 | 3.4 | | 4.4 4.7 | 4.6 | |
| | | | | 10.9 | Middle | 5.5 | 29.6 29.5 | 29.6 | 7.9 7.9 | 7.9 | 13.5 13.2 | 13.3 | 79.7 80.5 | 80.1 | 5.7 5.7 | 5.7 | 5.7 | 3.5 3.5 | 3.5 | 3.5 | 4.3 5.0 | 4.7 | 5.0 |
| | | | | | Bottom | 9.9 | 29.4 29.4 | 29.4 | 7.8 7.8 | 7.8 | 17.6 17.9 | 17.8 | 79.7 78.6 | 79.2 | 5.6 5.6 | 5.6 | 5.6 | 3.7 3.7 | 3.7 | | 6.0 5.5 | 5.8 | |
| 29-Aug-16 | Sunny | Moderate | 17:37 | | Surface | 1.0 | 27.8 27.9 | 27.8 | 8.2 8.2 | 8.2 | 19.6 19.1 | 19.4 | 79.9 73.2 | 76.6 | 5.6 5.2 | 5.4 | 5.3 | 6.8 7.0 | 6.9 | | 10.5 9.5 | 10.0 | |
| | | | | 11.1 | Middle | 5.6 | 27.5 27.4 | 27.5 | 8.2 8.2 | 8.2 | 20.1 21.4 | 20.8 | 72.4 75.9 | 74.2 | 5.1 5.3 | 5.2 | 5.5 | 7.0 7.0 | 7.0 | 7.0 | 10.2 9.5 | 9.9 | 10.2 |
| | | | | | Bottom | 10.1 | 27.5 27.3 | 27.4 | 8.2 8.2 | 8.2 | 20.9 21.1 | 21.0 | 72.1 75.2 | 73.7 | 5.1 5.3 | 5.2 | 5.2 | 7.1 7.0 | 7.1 | | 10.8 10.8 | 10.8 | |
| 31-Aug-16 | Sunny | Moderate | 19:46 | | Surface | 1.0 | 28.4 28.4 | 28.4 | 8.1 8.1 | 8.1 | 23.5 25.1 | 24.3 | 78.4 78.8 | 78.6 | 5.2 5.3 | 5.3 | 5.3 | 6.1 6.2 | 6.2 | _ | 5.6 6.4 | 6.0 | |
| | | | | 10.9 | Middle | 5.5 | 28.2 28.3 | 28.3 | 8.1 8.1 | 8.1 | 25.4 25.8 | 25.6 | 77.9 78.1 | 78.0 | 5.2 5.2 | 5.2 | J.J | 6.4 6.5 | 6.5 | 6.5 | 7.1 7.7 | 7.4 | 7.2 |
| | | | | | Bottom | 9.9 | 28.1 28.1 | 28.1 | 8.1 8.1 | 8.1 | 27.3 27.8 | 27.6 | 77.4 77.2 | 77.3 | 5.2 5.2 | 5.2 | 5.2 | 6.6 6.7 | 6.7 | | 8.8 7.6 | 8.2 | |

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

[^] As Tropical Cyclone Warning Signal No.3 or above was hoisted, water quality monitoring (except the monitoring locations named CSA, CS6, SR10B(N) and SR10A during Mid-Ebb Tide) was stopped according to the Contingency Plan for Impact Monitoring.

^{*} DA: Depth-Averaged

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at IS(Mf)16 - Mid-EbbTide

| Date | Weather | Sea | Sampling | Water | Sampl | ing | Tempera | ature (°C) | F | Н | Salini | ty (ppt) | DO Satu | ration (%) | Dissol | ed Oxygen | (mg/L) | Т | urbidity(NT | J) | Suspe | nded Solids | (mg/L) |
|-----------|-----------|-------------|----------|-----------|---------|-----|--------------|------------|------------|---------|--------------|----------|----------------|------------|------------|-----------|--------|-------------------|-------------|-----|-------------|-------------|----------|
| | Condition | Condition** | Time | Depth (m) | Depth | (m) | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | DA* | Value | Average | DA* | Value | Average | DA* |
| 1-Aug-16^ | Cloudy | Moderate | - | | Surface | - | - | - | - | - | - | - | - | - | - | - | | - | - | | - | - | |
| | | | | - | Middle | - | - | - | - | - | - | - | - | - | - | - | - | - | - | = | - | - | = |
| | | | | | Bottom | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | - | - | |
| 3-Aug-16 | Cloudy | Moderate | 12:56 | | Surface | 1.0 | 26.2 26.2 | 26.2 | 8.2 8.2 | 8.2 | 26.5 26.6 | 26.5 | 82.1 79.3 | 80.7 | 5.7 5.5 | 5.6 | | 5.6 5.6 | 5.6 | | 5.4 4.6 | 5.0 | |
| | | | | 6.3 | Middle | 3.2 | 26.0 26.0 | 26.0 | 8.2 8.2 | 8.2 | 27.3 27.4 | 27.4 | 79.2 80.2 | 79.7 | 5.5 5.6 | 5.5 | 5.6 | 5.8 | 5.9 | 5.8 | 5.9 5.7 | 5.8 | 5.5 |
| | | | | | Bottom | 5.3 | 26.0 26.0 | 26.0 | 8.2 8.2 | 8.2 | 27.5 27.6 | 27.6 | 78.3 79.9 | 79.1 | 5.5 5.6 | 5.5 | 5.5 | 5.9 5.7 | 5.8 | | 6.2 5.3 | 5.8 | |
| 5-Aug-16 | Sunny | Moderate | 14:14 | | Surface | 1.0 | 27.2 | 27.1 | 8.2 | 8.2 | 24.4 | 24.3 | 74.3 | 76.2 | 5.1 | 5.2 | | 4.8 | 4.8 | | 6.5 | 6.3 | |
| | | | | 6.4 | Middle | 3.2 | 27.1 26.2 | 26.2 | 8.2 8.2 | 8.2 | 24.3 25.8 | 25.8 | 78.1 72.7 | 76.2 | 5.4 5.0 | 5.3 | 5.3 | 4.8 | 4.8 | 4.8 | 6.0 | 6.9 | 6.6 |
| | | | | | Bottom | 5.4 | 26.2 25.9 | 26.0 | 8.2 8.2 | 8.2 | 25.8 26.7 | 26.6 | 79.6 83.9 | 78.9 | 5.5 5.8 | 5.5 | 5.5 | 4.9 4.8 | 4.7 | | 7.0 | 6.7 | |
| 8-Aug-16 | Sunny | Moderate | 16:05 | | Surface | 1.0 | 26.0 29.4 | 29.4 | 8.2 8.1 | 8.1 | 26.5 21.2 | 21.1 | 73.9 120.2 | 120.2 | 5.1 8.3 | 8.2 | | <u>4.6</u> 5.3 | 5.3 | | 6.4 9.4 | 9.3 | |
| | | | | 6.2 | Middle | 3.1 | 29.5 27.9 | 28.0 | 8.0 8.0 | 8.0 | 21.0 22.3 | 22.2 | 120.1 107.9 | 107.3 | 8.2 7.3 | 7.4 | 7.8 | 5.2 5.2 | 5.2 | 5.2 | 9.2 8.4 | 8.3 | 8.8 |
| | | | | | Bottom | 5.2 | 28.0 27.5 | 27.6 | 8.0 8.0 | 8.0 | 22.1 23.5 | 23.3 | 106.7 91.5 | 94.3 | 7.4 6.3 | 6.5 | 6.5 | 5.1 5.2 | 5.2 | | 8.1 8.7 | 8.8 | |
| 10-Aug-16 | Rainy | Moderate | 17:15 | | Surface | 1.0 | 27.7 28.0 | 28.0 | 8.0 8.4 | 8.4 | 23.1 21.2 | 21.3 | 97.1 79.8 | 81.1 | 6.7 5.6 | 5.6 | | 5.1 2.9 | 2.9 | | 8.9 1.1 | 1.1 | |
| | | | | 6.3 | Middle | 3.2 | 28.1 27.6 | 27.6 | 8.3 8.3 | 8.3 | 21.4 23.1 | 22.8 | 82.4 79.1 | 77.7 | 5.7 5.5 | 5.4 | 5.5 | 2.9 | 2.9 | 2.9 | 1.1 | 1.1 | 1.2 |
| | | | | | Bottom | 5.3 | 27.6 26.5 | 26.4 | 8.3 8.3 | 8.3 | 22.6 28.3 | 28.1 | 76.3 81.8 | 80.7 | 5.3 5.6 | 5.5 | 5.5 | 3.0 | 3.0 | | 1.0 | 1.5 | |
| 12-Aug-16 | Rainy | Moderate | 08:24 | | Surface | 1.0 | 26.4 27.2 | 27.2 | 8.3 8.2 | 8.2 | 27.8 23.1 | 23.1 | 79.5 83.9 | 82.6 | 5.5 5.8 | 5.7 | | 2.9 | 2.3 | | 1.5 2.1 | 2.4 | |
| | | | | 6.3 | Middle | 3.2 | 27.2 26.5 | 26.3 | 8.2 8.2 | 8.2 | 23.1 25.4 | 25.6 | 81.3 82.7 | 81.5 | 5.6 5.8 | 5.7 | 5.7 | 3.3 | 3.3 | 3.0 | 2.6 | 3.3 | 2.9 |
| | | | | 0.0 | Bottom | 5.3 | 26.2 25.8 | 25.8 | 8.2 8.2 | 8.2 | 25.7 29.2 | 29.3 | 80.3 81.9 | 80.1 | 5.6 5.7 | 5.6 | 5.6 | 3.3 | 3.3 | 0.0 | 3.7 2.5 | 3.1 | 2.0 |
| 15-Aug-16 | Cloudy | Moderate | 11:24 | | Surface | 1.0 | 25.7 27.3 | 27.2 | 8.2 8.3 | 8.3 | 29.4 24.3 | 24.2 | 78.2 81.6 | 79.0 | 5.5 5.6 | 5.5 | 0.0 | 3.3 5.1 | 5.1 | | 3.7 | 3.3 | |
| | | | | 6.1 | Middle | 3.1 | 27.1 26.4 | 26.4 | 8.3 8.3 | 8.3 | 24.1 26.5 | 27.0 | 76.4 73.5 | 75.2 | 5.3 5.1 | 5.2 | 5.4 | 5.0 6.1 | 6.2 | 5.8 | 3.6 6.0 | 5.9 | 4.8 |
| | | | | 0.1 | Bottom | 5.1 | 26.5 25.7 | 25.9 | 8.3 8.2 | 8.3 | 27.5 29.2 | 29.2 | 76.9 70.7 | 70.5 | 5.3 4.9 | 4.9 | 4.9 | 6.2 6.1 | 6.2 | 3.0 | 5.7 5.0 | 5.2 | 4.0 |
| 17-Aug-16 | Rainy | Moderate | 12:27 | <u> </u> | Surface | 1.0 | 26.0 26.8 | 26.7 | 8.3 8.3 | 8.3 | 29.2 25.3 | 25.4 | 70.2 83.9 | 84.6 | 4.9 5.7 | 5.8 | 4.5 | 6.2 3.7 | 3.8 | | 5.4 6.2 | 6.2 | |
| - | - | | | 6.7 | | | 26.6 26.4 | 26.7 | 8.3 8.3 | 8.3 | 25.6 25.4 | 25.4 | 85.2 81.3 | 82.1 | 5.9 5.7 | | 5.8 | 3.8 | | 3.9 | 6.2 9.3 | | 0.0 |
| | | | | 6.7 | Middle | 3.4 | 26.2 26.7 | | 8.3 8.3 | | 26.1 28.1 | _ | 82.8 80.7 | - | 5.8 5.6 | 5.7 | 5.0 | 3.9 4.0 | 3.9 | 3.9 | 9.0 | 9.2 | 8.3 |
| 19-Aug-16 | Fine | Moderate | 13:21 | | Bottom | 5.7 | 26.4 26.4 | 26.5 | 8.3 8.2 | 8.3 | 27.9 27.1 | 28.0 | 80.2 79.1 | 80.5 | 5.6 5.5 | 5.6 | 5.6 | 4.1 5.9 | 4.1 | | 10.1 5.2 | 9.6 | — |
| | | | | | Surface | 1.0 | 26.5 26.1 | 26.4 | 8.2 8.2 | 8.2 | 27.0 27.7 | 27.1 | 74.6 74.6 | 76.9 | 5.2 5.2 | 5.3 | 5.3 | 5.9 5.9 | 5.9 | | 6.6 | 5.9 | |
| | | | | 6.3 | Middle | 3.2 | 26.1 26.0 | 26.1 | 8.2 8.2 | 8.2 | 27.7 | 27.7 | 74.3 73.7 | 74.5 | 5.1 5.1 | 5.2 | | 5.9 5.9 | 5.9 | 5.9 | 6.5 6.6 | 6.7 | 6.6 |
| | | | | | Bottom | 5.3 | 26.2 | 26.1 | 8.2 | 8.2 | 27.7 | 27.9 | 72.3 | 73.0 | 5.0 | 5.1 | 5.1 | 6.1 | 6.0 | | 7.5 | 7.1 | 1 |

Remarks:

* DA: Depth-Averaged

** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at IS(Mf)16 - Mid-EbbTide

| Date | Weather | Sea | Sampling | Water | Samp | ling | Tempera | ature (°C) | ŗ | οH | Salini | ty (ppt) | DO Satu | ration (%) | Dissol | ved Oxygen | (mg/L) | Т | urbidity(NTI | J) | Susper | nded Solids | (mg/L) |
|-----------|-----------|-------------|----------|-----------|---------|------|--------------|------------|------------|---------|--------------|----------|--------------|------------|------------|------------|--------|------------|--------------|-----|--------------|-------------|--------|
| | Condition | Condition** | Time | Depth (m) | Depth | (m) | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | DA* | Value | Average | DA* | Value | Average | DA* |
| 22-Aug-16 | Sunny | Moderate | 14:59 | | Surface | 1.0 | 28.0 28.0 | 28.0 | 8.2 8.2 | 8.2 | 22.6 23.0 | 22.8 | 80.3 85.1 | 82.7 | 5.7 6.0 | 5.9 | 5.8 | 4.1 4.2 | 4.2 | | 4.3 6.1 | 5.2 | |
| | | | | 6.3 | Middle | 3.2 | 27.5 27.7 | 27.6 | 8.2 8.1 | 8.2 | 22.4 23.8 | 23.1 | 81.7 78.8 | 80.3 | 5.9 5.6 | 5.7 | 3.0 | 4.2 4.2 | 4.2 | 4.2 | 5.3 5.2 | 5.3 | 5.4 |
| | | | | | Bottom | 5.3 | 27.7 27.2 | 27.5 | 8.1 8.1 | 8.1 | 25.1 25.5 | 25.3 | 78.7 81.6 | 80.2 | 5.6 5.8 | 5.7 | 5.7 | 4.1 4.1 | 4.1 | | 6.1 5.5 | 5.8 | |
| 24-Aug-16 | Sunny | Moderate | 16:52 | | Surface | 1.0 | 28.8 28.7 | 28.8 | 8.3 8.3 | 8.3 | 22.9 22.9 | 22.9 | 85.5 83.7 | 84.6 | 5.9 5.8 | 5.9 | 5.9 | 6.3 6.2 | 6.3 | | 3.8 3.7 | 3.8 | |
| | | | | 6.3 | Middle | 3.2 | 28.1 28.0 | 28.1 | 8.3 8.3 | 8.3 | 24.1 24.5 | 24.3 | 85.4 82.5 | 84.0 | 5.9 5.7 | 5.8 | 0.0 | 6.1 6.2 | 6.2 | 6.2 | 4.7 4.9 | 4.8 | 4.3 |
| | | | | | Bottom | 5.3 | 28.4 27.7 | 28.0 | 8.3 8.3 | 8.3 | 25.6 26.3 | 26.0 | 83.1 80.5 | 81.8 | 5.8 5.6 | 5.7 | 5.7 | 6.2 6.2 | 6.2 | | 3.8 4.9 | 4.4 | |
| 26-Aug-16 | Sunny | Moderate | 07:45 | | Surface | 1.0 | 29.1 29.2 | 29.2 | 8.3 8.3 | 8.3 | 22.5 22.7 | 22.6 | 92.7 89.3 | 91.0 | 6.2 6.0 | 6.1 | 6.1 | 3.8 3.9 | 3.9 | | 2.9 2.8 | 2.9 | |
| | | | | 6.2 | Middle | 3.1 | 28.8 28.7 | 28.8 | 8.3 8.3 | 8.3 | 24.3 24.3 | 24.3 | 89.0 87.7 | 88.4 | 6.0 5.9 | 6.0 | 0.1 | 4.1 4.1 | 4.1 | 4.1 | 4.6 5.1 | 4.9 | 4.4 |
| | | | | | Bottom | 5.2 | 29.0 28.4 | 28.7 | 8.3 8.2 | 8.3 | 25.8 26.1 | 26.0 | 87.3 81.1 | 84.2 | 5.9 5.5 | 5.7 | 5.7 | 4.4 4.2 | 4.3 | | 4.5 6.4 | 5.5 | ļ |
| 29-Aug-16 | Sunny | Moderate | 11:18 | | Surface | 1.0 | 27.5 27.7 | 27.6 | 8.3 8.3 | 8.3 | 27.4 27.3 | 27.4 | 74.0 77.7 | 75.9 | 5.1 5.3 | 5.2 | 5.2 | 4.5 4.4 | 4.5 | | 7.0 6.5 | 6.8 | |
| | | | | 6.5 | Middle | 3.3 | 27.1 27.1 | 27.1 | 8.3 8.3 | 8.3 | 29.0 28.9 | 29.0 | 73.8 75.9 | 74.9 | 5.0 5.2 | 5.1 | 3.2 | 4.3 4.5 | 4.4 | 4.5 | 6.3 6.2 | 6.3 | 6.5 |
| | | | | | Bottom | 5.5 | 26.8 27.1 | 26.9 | 8.3 8.3 | 8.3 | 31.1 30.7 | 30.9 | 75.3 73.0 | 74.2 | 5.2 5.0 | 5.1 | 5.1 | 4.4 4.5 | 4.5 | | 6.1 6.8 | 6.5 | |
| 31-Aug-16 | Sunny | Moderate | 12:45 | | Surface | 1.0 | 27.6 27.7 | 27.6 | 8.3 8.3 | 8.3 | 29.6 29.5 | 29.5 | 80.8 80.1 | 80.5 | 5.4 5.3 | 5.3 | 5.3 | 8.9 8.6 | 8.8 | _ | 9.6 10.4 | 10.0 | |
| | | | | 6.4 | Middle | 3.2 | 27.3 27.3 | 27.3 | 8.3 8.3 | 8.3 | 30.2 30.3 | 30.3 | 79.9 79.4 | 79.7 | 5.3 5.3 | 5.3 | 5.5 | 8.5 8.8 | 8.7 | 8.7 | 10.9 12.0 | 11.5 | 11.1 |
| | | | | | Bottom | 5.4 | 27.1 27.4 | 27.3 | 8.3 8.3 | 8.3 | 30.7 30.2 | 30.5 | 78.7 78.9 | 78.8 | 5.2 5.3 | 5.2 | 5.2 | 8.8 8.5 | 8.7 | | 11.8 11.9 | 11.9 | |

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

[^] As Tropical Cyclone Warning Signal No.3 or above was hoisted, water quality monitoring (except the monitoring locations named CSA, CS6, SR10B(N) and SR10A during Mid-Ebb Tide) was stopped according to the Contingency Plan for Impact Monitoring.

^{*} DA: Depth-Averaged

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at IS(Mf)16 - Mid-FloodTide

| Date | Weather | Sea | Sampling | Water | Samp | ling | Tempera | ature (°C) | F | Н | Salini | ty (ppt) | DO Satu | ration (%) | Dissolv | ed Oxygen | (mg/L) | Т | urbidity(NTl | J) | Suspe | nded Solids | (mg/L) |
|-----------|-----------|-------------|----------|-----------|---------|------|--------------|------------|------------|---------|--------------|----------|--------------|------------|------------|-----------|--------|------------|--------------|-----|-------------|-------------|----------|
| | Condition | Condition** | Time | Depth (m) | Depth | (m) | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | DA* | Value | Average | DA* | Value | Average | DA* |
| 1-Aug-16^ | Cloudy | Moderate | - | | Surface | - | - | - | - | - | - | - | - | - | - | - | | - | - | | - | - | |
| | | | | - | Middle | - | - | - | | - | - | - | | - | - | - | - | - | - | = | - | - | = |
| | | | | | Bottom | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | - | - | Ì |
| 3-Aug-16 | Cloudy | Moderate | 06:35 | | Surface | 1.0 | 26.2 | 26.2 | 8.3 | 8.3 | 27.4 | 27.4 | 76.5 | 78.2 | 5.3 | 5.4 | | 6.5 | 6.6 | | 6.0 | 6.0 | |
| | | | | 6.3 | Middle | 3.2 | 26.2 26.1 | 26.1 | 8.3 8.3 | 8.3 | 27.5 28.5 | 28.5 | 79.8 76.9 | 76.0 | 5.5 5.3 | 5.3 | 5.4 | 6.6 6.7 | 6.7 | 6.7 | 5.9 7.2 | 7.7 | 8.1 |
| | | | | | Bottom | 5.3 | 26.1 26.0 | 26.0 | 8.3 8.3 | 8.3 | 28.5 29.0 | 29.1 | 75.0 76.8 | 75.8 | 5.2 5.3 | 5.2 | 5.2 | 6.7 6.7 | 6.8 | | 8.1 10.4 | 10.5 | |
| 5-Aug-16 | Sunny | Moderate | 08:06 | | | | 26.1 26.9 | | 8.3 8.2 | | 29.1 22.3 | | 74.8 80.3 | | 5.2 5.7 | | 5.2 | 6.9 4.5 | | | 10.6 6.5 | | |
| | , | | | | Surface | 1.0 | 26.9 26.5 | 26.9 | 8.2 8.1 | 8.2 | 22.3 23.8 | 22.3 | 85.4 79.8 | 82.9 | 6.1 5.7 | 5.9 | 5.9 | 4.5 4.6 | 4.5 | | 6.0 | 6.3 | • |
| | | | | 6.2 | Middle | 3.1 | 26.4 26.5 | 26.4 | 8.2 8.1 | 8.2 | 24.5 25.7 | 24.1 | 82.3 79.2 | 81.1 | 5.9 5.6 | 5.8 | | 4.4 | 4.5 | 4.5 | 5.6 6.1 | 6.1 | 6.1 |
| 2.1.12 | | | 22.42 | | Bottom | 5.2 | 26.1 | 26.3 | 8.1 | 8.1 | 25.6 | 25.7 | 81.5 | 80.4 | 5.8 | 5.7 | 5.7 | 4.5 | 4.5 | | 5.7 | 5.9 | <u> </u> |
| 8-Aug-16 | Sunny | Moderate | 09:49 | | Surface | 1.0 | 28.4 28.2 | 28.3 | 8.1 8.1 | 8.1 | 20.3 20.9 | 20.6 | 83.5 82.6 | 83.1 | 5.8 5.7 | 5.8 | 5.7 | 2.9 3.1 | 3.0 | | 4.8 5.4 | 5.1 | |
| | | | | 6.4 | Middle | 3.2 | 27.4 27.5 | 27.5 | 8.1 8.1 | 8.1 | 22.9 23.0 | 22.9 | 80.0 81.5 | 80.8 | 5.5 5.6 | 5.6 | | 4.2 4.4 | 4.3 | 3.9 | 2.8 4.6 | 3.7 | 4.5 |
| | | | | | Bottom | 5.4 | 27.6 27.1 | 27.4 | 8.1 8.1 | 8.1 | 23.8 24.2 | 24.0 | 78.7 78.0 | 78.4 | 5.5 5.4 | 5.4 | 5.4 | 4.4 4.1 | 4.3 | | 4.3 5.1 | 4.7 | |
| 10-Aug-16 | Rainy | Moderate | 12:07 | | Surface | 1.0 | 28.0 28.0 | 28.0 | 8.3 8.3 | 8.3 | 20.4 20.3 | 20.4 | 78.8 77.0 | 77.9 | 5.5 5.4 | 5.5 | 5.4 | 3.8 3.9 | 3.9 | | 2.4 3.2 | 2.8 | |
| | | | | 6.3 | Middle | 3.2 | 27.1 27.3 | 27.2 | 8.2 8.2 | 8.2 | 23.9 24.2 | 24.0 | 76.4 79.2 | 77.8 | 5.3 5.4 | 5.3 | 5.4 | 4.2 4.2 | 4.2 | 4.1 | 2.8 3.0 | 2.9 | 2.9 |
| | | | | | Bottom | 5.3 | 27.8 26.9 | 27.3 | 8.2 8.2 | 8.2 | 25.1 26.1 | 25.6 | 77.7 74.2 | 76.0 | 5.4 5.2 | 5.3 | 5.3 | 4.0 | 4.1 | | 2.0 | 2.9 | |
| 12-Aug-16 | Fine | Moderate | 14:46 | | Surface | 1.0 | 27.4 | 27.4 | 8.2 | 8.2 | 21.8 | 22.0 | 83.9 | 85.2 | 5.9 | 5.9 | | 4.8 | 4.7 | | 3.2 | 2.6 | |
| | | | | 6.2 | Middle | 3.1 | 27.3 27.0 | 27.1 | 8.2 8.2 | 8.2 | 22.2 24.6 | 24.2 | 86.5 79.9 | 79.3 | 6.0 5.5 | 5.5 | 5.7 | 4.6 | 4.8 | 4.8 | 2.0 3.1 | 3.3 | 2.8 |
| | | | | | Bottom | 5.2 | 27.1 26.5 | 26.4 | 8.2 8.2 | 8.2 | 23.8 27.2 | 27.0 | 78.6 78.4 | 76.6 | 5.5 5.5 | 5.3 | 5.3 | 4.8 4.8 | 4.8 | | 3.5 2.5 | 2.5 | |
| 15-Aug-16 | Cloudy | Moderate | 17:52 | | | | 26.4 26.9 | | 8.2 8.4 | _ | 26.9 24.9 | | 74.8 83.5 | | 5.2 5.8 | | 5.5 | 4.8 | | | 2.5 6.6 | | |
| | , | | | | Surface | 1.0 | 26.7 26.5 | 26.8 | 8.4 8.4 | 8.4 | 25.5 25.9 | 25.2 | 87.8 81.7 | 85.7 | 6.1 5.7 | 6.0 | 5.9 | 3.9 4.1 | 4.0 | | 6.7 6.8 | 6.7 | |
| | | | | 6.2 | Middle | 3.1 | 26.5 26.5 | 26.5 | 8.4 8.4 | 8.4 | 26.2 26.2 | 26.0 | 83.4 82.2 | 82.6 | 5.8 5.7 | 5.7 | | 4.0 | 4.1 | 4.1 | 6.6 | 6.7 | 7.0 |
| 47.4 | | | 10.10 | | Bottom | 5.2 | 26.5 | 26.5 | 8.4 | 8.4 | 26.4 | 26.3 | 79.5 | 80.9 | 5.5 | 5.6 | 5.6 | 4.1 | 4.1 | | 7.6 | 7.7 | <u> </u> |
| 17-Aug-16 | Rainy | Moderate | 19:16 | | Surface | 1.0 | 26.3 26.3 | 26.3 | 8.3 8.3 | 8.3 | 27.0 27.0 | 27.0 | 76.7 76.5 | 76.6 | 5.3 5.3 | 5.3 | 5.3 | 4.4 4.5 | 4.5 | | 6.1 6.4 | 6.3 | |
| | | | | 6.8 | Middle | 3.4 | 26.2 26.2 | 26.2 | 8.3 8.3 | 8.3 | 27.1 27.1 | 27.1 | 76.1 76.3 | 76.2 | 5.3 5.3 | 5.3 | | 4.6 4.7 | 4.7 | 4.7 | 6.1 5.9 | 6.0 | 5.9 |
| | | | | | Bottom | 5.8 | 26.2 26.2 | 26.2 | 8.3 8.3 | 8.3 | 27.1 27.1 | 27.1 | 75.4 75.5 | 75.5 | 5.2 5.2 | 5.2 | 5.2 | 4.8 4.9 | 4.9 | | 5.6 5.3 | 5.5 | <u> </u> |
| 19-Aug-16 | Fine | Moderate | 07:13 | | Surface | 1.0 | 26.2 26.1 | 26.2 | 8.2 8.2 | 8.2 | 27.4 27.5 | 27.5 | 80.4 84.4 | 82.4 | 5.6 5.9 | 5.7 | | 5.4 5.1 | 5.3 | | 6.5 6.8 | 6.7 | |
| | | | | 6.4 | Middle | 3.2 | 26.1 26.1 | 26.1 | 8.2 8.2 | 8.2 | 27.7 27.7 | 27.7 | 82.3 79.6 | 81.0 | 5.7 5.6 | 5.6 | 5.7 | 5.2 5.5 | 5.4 | 5.3 | 10.1 9.8 | 10.0 | 9.0 |
| | | | | | Bottom | 5.4 | 26.1 | 26.0 | 8.2 | 8.2 | 27.9 | 28.0 | 79.6 | 80.6 | 5.6 | 5.6 | 5.6 | 5.3 | 5.3 | | 11.0 | 10.3 | İ |
| | | | L | | | | 26.0 | | 8.2 | | 28.0 | | 81.6 | | 5.7 | | | 5.2 | | | 9.6 | | <u> </u> |

Remarks:

* DA: Depth-Averaged

** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at IS(Mf)16 - Mid-FloodTide

| Date | Weather | Sea | Sampling | Water | Samp | ling | Tempera | ature (°C) | | ρΗ | Salini | ty (ppt) | DO Satu | ration (%) | Dissol | ved Oxygen | (mg/L) | 1 | urbidity(NTl | J) | Susper | nded Solids | (mg/L) |
|-----------|-----------|-------------|----------|-----------|---------|------|--------------|------------|------------|---------|--------------|----------|----------------|------------|------------|------------|--------|------------|--------------|-----|------------|-------------|--------|
| | Condition | Condition** | Time | Depth (m) | Depth | (m) | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | DA* | Value | Average | DA* | Value | Average | DA* |
| 22-Aug-16 | Sunny | Moderate | 09:24 | | Surface | 1.0 | 27.9 27.9 | 27.9 | 8.2 8.2 | 8.2 | 21.0 21.1 | 21.0 | 76.9 79.6 | 78.3 | 5.5 5.7 | 5.6 | 5.6 | 6.4 6.2 | 6.3 | | 4.4 2.8 | 3.6 | |
| | | | | 6.4 | Middle | 3.2 | 27.7 27.6 | 27.6 | 8.2 8.2 | 8.2 | 23.5 23.4 | 23.5 | 76.4 77.8 | 77.1 | 5.5 5.6 | 5.5 | 0.0 | 6.3 6.2 | 6.3 | 6.3 | 2.9 3.5 | 3.2 | 3.1 |
| | | | | | Bottom | 5.4 | 27.7 27.5 | 27.6 | 8.1 8.2 | 8.2 | 24.1 24.5 | 24.3 | 76.1 77.7 | 76.9 | 5.4 5.6 | 5.5 | 5.5 | 6.3 6.2 | 6.3 | | 2.4 2.4 | 2.4 | |
| 24-Aug-16 | Sunny | Moderate | 11:41 | | Surface | 1.0 | 28.5 28.6 | 28.6 | 8.2 8.2 | 8.2 | 22.3 22.3 | 22.3 | 80.4 81.4 | 80.9 | 5.6 5.6 | 5.6 | 5.6 | 6.2 6.2 | 6.2 | | 2.7 2.3 | 2.5 | |
| | | | | 6.4 | Middle | 3.2 | 28.1 28.0 | 28.0 | 8.2 8.2 | 8.2 | 24.9 25.0 | 25.0 | 80.2 79.6 | 79.9 | 5.6 5.6 | 5.6 | 0.0 | 6.3 6.3 | 6.3 | 6.3 | 2.3 2.4 | 2.4 | 2.7 |
| | | | | | Bottom | 5.4 | 28.1 27.8 | 27.9 | 8.2 8.2 | 8.2 | 26.3 26.4 | 26.4 | 78.7 78.4 | 78.6 | 5.5 5.5 | 5.5 | 5.5 | 6.2 6.3 | 6.3 | | 2.6 3.6 | 3.1 | |
| 26-Aug-16 | Sunny | Moderate | 13:41 | | Surface | 1.0 | 29.7 29.5 | 29.6 | 8.6 8.5 | 8.6 | 20.0 20.1 | 20.1 | 103.7 106.4 | 105.1 | 7.1 7.1 | 7.1 | 7.0 | 4.8 4.7 | 4.8 | | 4.9 4.6 | 4.8 | |
| | | | | 6.5 | Middle | 3.3 | 29.1 29.0 | 29.1 | 8.5 8.5 | 8.5 | 20.5 20.2 | 20.3 | 101.4 100.7 | 101.1 | 6.9 6.9 | 6.9 | 7.0 | 6.1 6.1 | 6.1 | 5.7 | 9.0 8.4 | 8.7 | 7.5 |
| | | | | | Bottom | 5.5 | 28.6 29.4 | 29.0 | 8.5 8.5 | 8.5 | 25.4 24.7 | 25.0 | 90.9 96.2 | 93.6 | 6.3 6.5 | 6.4 | 6.4 | 6.1 6.1 | 6.1 | | 8.1 9.9 | 9.0 | |
| 29-Aug-16 | Sunny | Moderate | 17:42 | | Surface | 1.0 | 27.9 27.9 | 27.9 | 8.4 8.4 | 8.4 | 26.7 26.7 | 26.7 | 82.5 88.8 | 85.7 | 5.5 6.0 | 5.8 | 5.7 | 6.4 6.5 | 6.5 | | 5.0 4.5 | 4.8 | |
| | | | | 6.5 | Middle | 3.3 | 27.7 27.7 | 27.7 | 8.4 8.4 | 8.4 | 27.3 27.2 | 27.2 | 81.5 82.8 | 82.2 | 5.5 5.6 | 5.6 | 3.7 | 6.3 6.6 | 6.5 | 6.5 | 9.3 8.4 | 8.9 | 7.4 |
| | | | | | Bottom | 5.5 | 27.7 27.6 | 27.6 | 8.4 8.4 | 8.4 | 28.6 28.4 | 28.5 | 78.9 81.5 | 80.2 | 5.3 5.5 | 5.4 | 5.4 | 6.6 6.6 | 6.6 | | 7.8 9.0 | 8.4 | |
| 31-Aug-16 | Sunny | Moderate | 18:42 | | Surface | 1.0 | 28.3 28.2 | 28.3 | 8.4 8.4 | 8.4 | 25.9 26.4 | 26.2 | 83.0 78.2 | 80.6 | 5.6 5.3 | 5.4 | 5.3 | 7.9 7.9 | 7.9 | | 9.3 8.5 | 8.9 | |
| | | | | 6.3 | Middle | 3.2 | 27.9 28.1 | 28.0 | 8.4 8.4 | 8.4 | 27.9 26.9 | 27.4 | 75.2 77.4 | 76.3 | 5.0 5.2 | 5.1 | 5.5 | 7.8 7.8 | 7.8 | 7.9 | 9.2 8.0 | 8.6 | 8.6 |
| | | | | | Bottom | 5.3 | 27.9 28.0 | 28.0 | 8.4 8.4 | 8.4 | 28.1 28.1 | 28.1 | 73.1 72.8 | 73.0 | 4.9 4.9 | 4.9 | 4.9 | 7.8 7.9 | 7.9 | | 8.6 7.8 | 8.2 | |

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

[^] As Tropical Cyclone Warning Signal No.3 or above was hoisted, water quality monitoring (except the monitoring locations named CSA, CS6, SR10B(N) and SR10A during Mid-Ebb Tide) was stopped according to the Contingency Plan for Impact Monitoring.

^{*} DA: Depth-Averaged

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at IS5 - Mid-EbbTide

| Date | Weather | Sea | Sampling | Water | Sampli | ing | Tempera | ature (°C) | ī | Н | Salini | ty (ppt) | DO Satu | ration (%) | Dissol | ed Oxygen | (mg/L) | Т | urbidity(NT | U) | Suspe | nded Solids | (mg/L) د |
|-------------|-----------|-------------|----------|-----------|---------|-----|--------------|------------|------------|---------|--------------|----------|--------------|------------|------------|-----------|--------|--------------|-------------|----------|--------------|-------------|----------|
| | Condition | Condition** | Time | Depth (m) | Depth (| (m) | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | DA* | Value | Average | DA* | Value | Average | DA* |
| 1-Aug-16^ | Cloudy | Moderate | - | | Surface | - | - | - | - | - | - | - | - | - | - | - | | - | - | | - | - | |
| | | | | - | Middle | - | - | - | - | - | - | - | - | - | - | - | - | - | - | <u>-</u> | - | - | <u> </u> |
| | | | | | Bottom | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | - | - | |
| 3-Aug-16 | Cloudy | Moderate | 12:11 | | | | 26.2 | | 8.0 | | 26.0 | | 79.1 | | 5.5 | | | 9.9 | | | 11.4 | | |
| 3-Aug-10 | Oloudy | Woderate | 12.11 | | Surface | 1.0 | 26.1 | 26.1 | 8.0 | 8.0 | 26.1 | 26.0 | 78.5 | 78.8 | 5.5 | 5.5 | 5.5 | 9.6 | 9.8 | | 11.4 | 11.4 | |
| | | | | 8.5 | Middle | 4.3 | 26.1 26.1 | 26.1 | 8.0 8.0 | 8.0 | 26.3 26.2 | 26.3 | 78.9 78.5 | 78.7 | 5.5 5.5 | 5.5 | | 9.7 9.8 | 9.8 | 9.7 | 10.8 11.4 | 11.1 | 11.6 |
| | | | | | Bottom | 7.5 | 26.1 26.1 | 26.1 | 8.0 7.9 | 8.0 | 26.3 26.7 | 26.5 | 78.8 79.6 | 79.2 | 5.5 5.6 | 5.5 | 5.5 | 9.7 9.5 | 9.6 | | 11.9 12.4 | 12.2 | |
| 5-Aug-16 | Sunny | Moderate | 13:20 | | Surface | 1.0 | 27.1 27.2 | 27.1 | 8.4 8.5 | 8.5 | 22.3 22.0 | 22.2 | 75.5 76.0 | 75.8 | 5.3 5.3 | 5.3 | | 9.4 9.7 | 9.6 | | 7.4 7.4 | 7.4 | |
| | | | | 8.7 | Middle | 4.4 | 26.8 26.8 | 26.8 | 8.5 8.4 | 8.5 | 22.2 22.5 | 22.3 | 76.0 75.5 | 75.8 | 5.3 5.3 | 5.3 | 5.3 | 9.8 9.6 | 9.7 | 9.8 | 7.3 7.3 | 7.3 | 7.9 |
| | | | | | Bottom | 7.7 | 26.7 | 26.8 | 8.5 | 8.5 | 22.3 | 22.3 | 75.4 | 75.3 | 5.3 | 5.3 | 5.3 | 9.8 | 10.0 | | 9.0 | 9.0 | . ' |
| 8-Aug-16 | Sunny | Moderate | 15:21 | | | | 26.9 29.5 | | 8.5 8.1 | | 22.3 17.5 | | 75.1 96.1 | | 5.2 6.8 | | | 10.2 8.4 | | <u> </u> | 9.0 | | |
| 5 1 mg 1 5 | | | | | Surface | 1.0 | 29.6 | 29.5 | 8.0 | 8.1 | 17.2 21.1 | 17.3 | 91.4 86.7 | 93.8 | 6.3 | 6.6 | 6.3 | 8.5 8.6 | 8.5 | | 6.5 8.0 | 6.3 | - |
| | | | | 8.1 | Middle | 4.1 | 26.9 | 26.8 | 8.0 | 8.0 | 21.2 | 21.2 | 83.5 | 85.1 | 5.9 | 6.0 | | 8.6 | 8.6 | 8.6 | 7.4 | 7.7 | 7.7 |
| | | | | | Bottom | 7.1 | 26.5 26.6 | 26.6 | 8.0 8.1 | 8.1 | 22.8 23.2 | 23.0 | 76.1 77.0 | 76.6 | 5.4 5.5 | 5.5 | 5.5 | 8.5 8.8 | 8.7 | | 7.9 10.3 | 9.1 | |
| 10-Aug-16 | Rainy | Moderate | 16:33 | | Surface | 1.0 | 28.1 28.1 | 28.1 | 8.5 8.4 | 8.4 | 19.7 19.9 | 19.8 | 90.9 92.3 | 91.6 | 6.5 6.6 | 6.6 | | 8.6 8.4 | 8.5 | | 2.8 3.8 | 3.3 | |
| | | | | 8.5 | Middle | 4.3 | 26.2 26.5 | 26.4 | 8.4 8.3 | 8.3 | 26.2 26.9 | 26.5 | 88.1 90.4 | 89.3 | 6.2 6.4 | 6.3 | 6.5 | 8.5 8.5 | 8.5 | 8.5 | 2.9 | 3.0 | 3.2 |
| | | | | | Bottom | 7.5 | 25.4 | 25.3 | 8.3 | 8.3 | 29.6 | 29.5 | 80.3 | 80.5 | 5.7 | 5.7 | 5.7 | 8.5 | 8.5 | | 2.7 | 3.3 | , |
| 12-Aug-16 | Rainy | Moderate | 09:16 | | | | 25.3 27.2 | | 8.3 8.2 | | 29.4 21.1 | | 80.6 73.2 | | 5.8 5.1 | | | 8.5 4.8 | | <u> </u> | 3.8 1.7 | | |
| 12 / tag 10 | · tally | moderate | 00.10 | | Surface | 1.0 | 27.3 | 27.3 | 8.2 | 8.2 | 21.2 | 21.2 | 72.3 | 72.8 | 5.1 | 5.1 | 5.1 | 4.7 | 4.8 | | 1.9 | 1.8 | ļ ' |
| | | | | 8.2 | Middle | 4.1 | 25.3 25.3 | 25.3 | 8.1 8.1 | 8.1 | 28.3 28.4 | 28.3 | 72.4 72.2 | 72.3 | 5.1 5.0 | 5.0 | | 4.8 4.8 | 4.8 | 4.8 | 2.3 2.4 | 2.4 | 2.2 |
| | | | | | Bottom | 7.2 | 25.2 25.3 | 25.2 | 8.1 8.1 | 8.1 | 29.3 29.2 | 29.3 | 68.5 68.1 | 68.3 | 4.8 4.8 | 4.8 | 4.8 | 4.8 4.9 | 4.9 | | 2.2 2.5 | 2.4 | |
| 15-Aug-16 | Cloudy | Moderate | 12:10 | | Surface | 1.0 | 27.7 27.4 | 27.6 | 8.3 8.3 | 8.3 | 21.5 22.4 | 22.0 | 81.5 75.6 | 78.6 | 5.5 5.1 | 5.3 | | 7.9 8.0 | 8.0 | | 6.6 5.8 | 6.2 | |
| | | | | 8.1 | Middle | 4.1 | 25.6 26.4 | 26.0 | 8.2 8.2 | 8.2 | 28.5 27.8 | 28.1 | 79.1 75.3 | 77.2 | 5.4 5.1 | 5.2 | 5.3 | 11.5 11.1 | 11.3 | 10.2 | 6.8 6.6 | 6.7 | 6.1 |
| | | | | | Bottom | 7.1 | 25.2 | 25.3 | 8.2 | 8.2 | 29.4 | 29.4 | 72.3 | 72.9 | 4.9 | 4.9 | 4.9 | 11.2 | 11.3 | | 5.3 | 5.3 | . ' |
| 17-Aug-16 | Rainy | Moderate | 13:12 | | Surface | 1.0 | 25.4 26.4 | 26.3 | 8.2 8.3 | 8.3 | 29.4 25.3 | 25.7 | 73.4 75.1 | 75.3 | 5.0 5.2 | 5.2 | | 11.3 5.3 | 5.4 | | 5.3 10.8 | 10.5 | \vdash |
| | • | | | | - | | 26.3 26.3 | | 8.3 8.3 | | 26.2 26.2 | | 75.4 74.2 | | 5.2 5.1 | | 5.2 | 5.4 5.5 | | | 10.2 11.4 | | |
| | | | | 8.4 | Middle | 4.2 | 26.2 26.3 | 26.2 | 8.3 8.3 | 8.3 | 26.5 26.0 | 26.3 | 74.9 73.5 | 74.6 | 5.2 5.1 | 5.1 | | 5.6 5.8 | 5.6 | 5.6 | 10.4 | 10.9 | 11.3 |
| | | | | | Bottom | 7.4 | 26.2 | 26.3 | 8.3 | 8.3 | 26.7 | 26.3 | 73.5 | 73.5 | 5.1 | 5.1 | 5.1 | 5.9 | 5.9 | | 12.3 | 12.6 | <u> </u> |
| 19-Aug-16 | Fine | Moderate | 12:32 | | Surface | 1.0 | 26.5 26.5 | 26.5 | 8.3 8.3 | 8.3 | 27.1 27.1 | 27.1 | 76.7 76.8 | 76.8 | 5.3 5.3 | 5.3 | 5.3 | 11.3 11.3 | 11.3 | | 5.2 6.6 | 5.9 |] |
| | | | | 8.3 | Middle | 4.2 | 26.4 26.4 | 26.4 | 8.3 8.3 | 8.3 | 27.3 27.3 | 27.3 | 76.5 76.6 | 76.6 | 5.3 5.3 | 5.3 | 5.5 | 11.4 11.5 | 11.5 | 11.4 | 7.5 7.1 | 7.3 | 7.4 |
| | | | | | Bottom | 7.3 | 26.3 26.4 | 26.4 | 8.4 8.3 | 8.3 | 27.4 27.3 | 27.4 | 76.4 76.4 | 76.4 | 5.3 5.3 | 5.3 | 5.3 | 11.2 11.5 | 11.4 | | 8.7 9.3 | 9.0 | |
| | | l | | 1 | 1 | | 26.4 | l | 8.3 | l | 21.3 | | /6.4 | <u> </u> | 5.3 | I | | 11.5 | 1 | l | 9.3 | 1 | |

Remarks:

* DA: Depth-Averaged

** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at IS5 - Mid-EbbTide

| Date | Weather | Sea | Sampling | Water | Samp | ling | Tempera | ature (°C) | | οH | Salini | ty (ppt) | DO Satu | ration (%) | Dissolv | red Oxygen | (mg/L) | Т | urbidity(NTI | J) | Susper | nded Solids | s (mg/L) |
|-----------|-----------|-------------|----------|-----------|---------|------|--------------|------------|------------|---------|--------------|----------|--------------|------------|------------|------------|--------|--------------|--------------|------|--------------|-------------|----------|
| | Condition | Condition** | Time | Depth (m) | Depth | (m) | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | DA* | Value | Average | DA* | Value | Average | DA* |
| 22-Aug-16 | Sunny | Moderate | 14:03 | | Surface | 1.0 | 28.2 28.2 | 28.2 | 8.4 8.4 | 8.4 | 20.6 20.4 | 20.5 | 80.6 81.3 | 81.0 | 5.8 5.9 | 5.8 | 5.8 | 13.4 13.1 | 13.3 | | 15.0 14.9 | 15.0 | |
| | | | | 8.5 | Middle | 4.3 | 28.1 28.1 | 28.1 | 8.4 8.4 | 8.4 | 20.3 20.6 | 20.5 | 80.9 80.4 | 80.7 | 5.8 5.8 | 5.8 | 3.0 | 13.2 13.5 | 13.4 | 13.3 | 15.4 14.2 | 14.8 | 16.6 |
| | | | | | Bottom | 7.5 | 28.1 28.1 | 28.1 | 8.5 8.4 | 8.4 | 20.3 20.5 | 20.4 | 80.9 80.4 | 80.7 | 5.8 5.8 | 5.8 | 5.8 | 13.1 13.4 | 13.3 | | 20.9 19.0 | 20.0 | |
| 24-Aug-16 | Sunny | Moderate | 16:07 | | Surface | 1.0 | 29.2 29.1 | 29.2 | 8.5 8.5 | 8.5 | 21.4 21.7 | 21.6 | 81.3 82.8 | 82.1 | 5.5 5.6 | 5.6 | 5.5 | 6.5 6.7 | 6.6 | | 4.8 5.4 | 5.1 | |
| | | | | 8.5 | Middle | 4.3 | 28.9 28.8 | 28.8 | 8.5 8.5 | 8.5 | 22.0 22.2 | 22.1 | 77.1 81.7 | 79.4 | 5.3 5.6 | 5.4 | 3.3 | 6.8 6.8 | 6.8 | 6.7 | 4.8 4.9 | 4.9 | 5.0 |
| | | | | | Bottom | 7.5 | 28.5 29.0 | 28.8 | 8.5 8.5 | 8.5 | 22.5 21.9 | 22.2 | 76.7 81.2 | 79.0 | 5.2 5.6 | 5.4 | 5.4 | 6.8 6.8 | 6.8 | | 4.9 4.9 | 4.9 | |
| 26-Aug-16 | Sunny | Moderate | 08:36 | | Surface | 1.0 | 29.5 29.4 | 29.5 | 8.5 8.4 | 8.5 | 21.8 22.0 | 21.9 | 89.8 90.3 | 90.1 | 6.1 6.1 | 6.1 | 5.8 | 6.0 5.9 | 6.0 | | 8.0 8.1 | 8.1 | |
| | | | | 8.1 | Middle | 4.1 | 27.8 27.6 | 27.7 | 8.4 8.4 | 8.4 | 26.4 26.6 | 26.5 | 80.9 79.3 | 80.1 | 5.5 5.4 | 5.4 | 5.0 | 6.3 6.2 | 6.3 | 6.1 | 6.7 7.0 | 6.9 | 7.6 |
| | | | | | Bottom | 7.1 | 27.5 27.7 | 27.6 | 8.4 8.4 | 8.4 | 28.3 28.2 | 28.3 | 73.9 78.5 | 76.2 | 5.0 5.3 | 5.2 | 5.2 | 6.1 6.0 | 6.1 | | 7.0 8.4 | 7.7 | |
| 29-Aug-16 | Sunny | Moderate | 12:06 | | Surface | 1.0 | 27.8 27.9 | 27.9 | 8.4 8.4 | 8.4 | 25.6 25.5 | 25.6 | 85.6 80.5 | 83.1 | 5.8 5.5 | 5.7 | 5.6 | 9.1 8.9 | 9.0 | | 6.4 5.3 | 5.9 | |
| | | | | 8.1 | Middle | 4.1 | 27.5 27.5 | 27.5 | 8.3 8.3 | 8.3 | 27.6 27.9 | 27.8 | 78.8 79.5 | 79.2 | 5.4 5.5 | 5.5 | 3.0 | 9.7 9.6 | 9.7 | 9.4 | 5.2 5.3 | 5.3 | 6.2 |
| | | | | | Bottom | 7.1 | 27.7 27.2 | 27.4 | 8.3 8.3 | 8.3 | 29.4 29.8 | 29.6 | 77.8 79.2 | 78.5 | 5.4 5.4 | 5.4 | 5.4 | 9.6 9.6 | 9.6 | | 7.4 7.4 | 7.4 | |
| 31-Aug-16 | Sunny | Moderate | 13:35 | | Surface | 1.0 | 28.0 27.9 | 28.0 | 8.4 8.4 | 8.4 | 29.4 29.4 | 29.4 | 78.2 77.5 | 77.9 | 5.2 5.2 | 5.2 | 5.2 | 13.1 13.1 | 13.1 | _ | 17.8 18.0 | 17.9 | |
| | | | | 8.4 | Middle | 4.2 | 27.9 27.9 | 27.9 | 8.4 8.4 | 8.4 | 29.5 29.5 | 29.5 | 77.5 77.9 | 77.7 | 5.2 5.2 | 5.2 | 5.2 | 13.9 13.4 | 13.7 | 13.5 | 18.6 18.0 | 18.3 | 17.8 |
| | | | | | Bottom | 7.4 | 27.9 27.8 | 27.8 | 8.4 8.4 | 8.4 | 29.6 29.7 | 29.6 | 77.4 77.6 | 77.5 | 5.2 5.2 | 5.2 | 5.2 | 13.9 13.2 | 13.6 | | 16.8 17.7 | 17.3 | |

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

[^] As Tropical Cyclone Warning Signal No.3 or above was hoisted, water quality monitoring (except the monitoring locations named CSA, CS6, SR10B(N) and SR10A during Mid-Ebb Tide) was stopped according to the Contingency Plan for Impact Monitoring.

^{*} DA: Depth-Averaged

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at IS5 - Mid-FloodTide

| Date | Weather | Sea | Sampling | Water | Samp | ling | Tempera | ature (°C) | ţ. | Н | Salini | ity (ppt) | DO Satu | ration (%) | Dissol | ved Oxygen | (mg/L) | Т | urbidity(NT | U) | Suspe | ended Solids | (mg/L) |
|-----------|-----------|-------------|----------|-----------|---------|------|--------------|------------|------------|---------|--------------|-----------|--------------|------------|------------|------------|--------|------------|-------------|----------|-------------------|--------------|----------|
| | Condition | Condition** | Time | Depth (m) | Depth | (m) | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | DA* | Value | Average | DA* | Value | Average | DA* |
| 1-Aug-16^ | Cloudy | Moderate | - | | Surface | - | - | - | - | - | - | - | - | - | - | - | | - | - | | - | - | |
| | | | | - | Middle | - | - | - | - | - | - | - | - | - | - | - | - | - | - | <u>-</u> | - | - | <u>-</u> |
| | | | | | Bottom | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | - | - | |
| 3-Aug-16 | Cloudy | Moderate | 07:31 | | Surface | 1.0 | 26.2 | 26.2 | 8.3 | 8.3 | 27.0 | 27.0 | 77.4 | 77.2 | 5.4 | 5.4 | | 7.8 | 7.8 | | 9.1 | 8.7 | |
| | | | | 8.7 | Middle | 4.4 | 26.2 26.1 | 26.1 | 8.3 8.2 | 8.2 | 27.0 27.5 | 27.4 | 76.9 77.0 | 76.8 | 5.4 5.3 | 5.3 | 5.4 | 7.7 | 7.8 | 7.8 | 7.2 7.0 | 7.3 | 8.2 |
| | | | | | Bottom | 7.7 | 26.1 26.1 | 26.1 | 8.2 8.2 | 8.2 | 27.3 27.7 | 27.8 | 76.5 78.9 | 78.2 | 5.3 5.5 | 5.4 | 5.4 | 7.9 7.8 | 7.8 | | 7.3 8.7 | 8.5 | |
| 5-Aug-16 | Sunny | Moderate | 08:51 | | Surface | 1.0 | 26.2 | 26.7 | 8.2 | 8.1 | 27.9 | 24.3 | 77.4 | 72.7 | 5.4 | 5.1 | | 7.8 5.5 | 5.6 | | 5.9 | 5.6 | |
| | | | | 8.9 | Middle | 4.5 | 26.7 26.6 | 26.6 | 8.1 8.1 | 8.1 | 24.3 | 24.5 | 72.1 72.3 | 72.2 | 5.0 5.1 | 5.1 | 5.1 | 5.6 5.5 | 5.5 | 5.6 | 5.3 | 5.4 | 5.7 |
| | | | | | Bottom | 7.9 | 26.6 26.6 | 26.6 | 8.1 8.1 | 8.1 | 24.5 24.5 | 24.5 | 72.0 71.3 | 71.7 | 5.0 5.0 | 5.0 | 5.0 | 5.5 5.7 | 5.6 | | 5.8 6.4 | 6.0 | |
| 8-Aug-16 | Sunny | Moderate | 10:36 | | Surface | 1.0 | 26.6 28.9 | 28.9 | 8.1 8.3 | 8.3 | 24.5 | 20.6 | 72.1 87.6 | 90.7 | 5.1 6.1 | 6.3 | | 5.4 | 5.4 | | 5.5 2.2 | 2.9 | |
| | | | | 8.6 | Middle | 4.3 | 28.9 28.0 | 28.0 | 8.2 8.3 | 8.3 | 20.7 | 22.6 | 93.8 84.1 | 83.3 | 6.5 5.8 | 5.7 | 6.0 | 5.3 | 5.4 | 5.4 | 3.6 | 4.0 | 3.5 |
| | | | | | Bottom | 7.6 | 28.0 27.1 | 27.0 | 8.3 8.3 | 8.3 | 22.8 | 24.8 | 82.4 78.1 | 75.8 | 5.7 | 5.3 | 5.3 | 5.4 5.5 | 5.5 | | 3.7 | 3.5 | |
| 10-Aug-16 | Rainy | Moderate | 12:51 | | Surface | 1.0 | 26.9 28.1 | 28.2 | 8.3 8.3 | 8.3 | 24.9 20.8 | 20.7 | 73.4 84.2 | 86.5 | 5.1 5.9 | 6.1 | | 5.5 6.4 | 6.4 | | 3.3 4.6 | 4.6 | |
| | | | | 8.7 | Middle | 4.4 | 28.2 27.3 | 27.2 | 8.3 8.2 | 8.3 | 20.7 24.5 | 24.7 | 88.8 77.8 | 77.5 | 6.3 5.5 | 5.5 | 5.8 | 6.4 | 6.5 | 6.5 | 4.6 6.1 | 5.4 | 4.9 |
| | | | | | Bottom | 7.7 | 27.1 25.2 | 25.1 | 8.3 8.2 | 8.2 | 24.8 29.8 | 29.8 | 77.2 73.4 | 72.2 | 5.5 5.2 | 5.1 | 5.1 | 6.5 6.4 | 6.5 | | <u>4.6</u> 5.1 | 4.8 | |
| 12-Aug-16 | Fine | Moderate | 13:59 | | | | 25.1 27.5 | | 8.2 8.3 | | 29.8 21.4 | | 70.9 83.5 | | 5.0 5.8 | | | 6.5 3.5 | | | 4.4 3.8 | | |
| 12710910 | | moderate | 10.00 | | Surface | 1.0 | 27.4 25.5 | 27.4 | 8.3 8.2 | 8.3 | 21.6 27.2 | 21.5 | 85.1 83.2 | 84.3 | 5.9 5.8 | 5.9 | 5.9 | 3.3 | 3.4 | | 3.8 | 3.8 | |
| | | | | 8.4 | Middle | 4.2 | 25.3 25.3 | 25.4 | 8.2 8.2 | 8.2 | 27.8 | 27.5 | 82.8 76.0 | 83.0 | 5.8 5.3 | 5.8 | | 3.3 | 3.3 | 3.4 | 3.8 | 3.6 | 3.4 |
| | | | | | Bottom | 7.4 | 25.2 | 25.2 | 8.2 | 8.2 | 28.2 | 28.2 | 78.1 | 77.1 | 5.5 | 5.4 | 5.4 | 3.3 | 3.4 | | 2.8 | 2.8 | |
| 15-Aug-16 | Cloudy | Moderate | 17:00 | | Surface | 1.0 | 27.5 27.2 | 27.4 | 8.2 8.2 | 8.2 | 23.3 23.6 | 23.5 | 87.1 91.4 | 89.3 | 6.0 6.3 | 6.2 | 5.9 | 6.7 6.4 | 6.6 | | 5.7 6.8 | 6.3 | |
| | | | | 8.3 | Middle | 4.2 | 25.9 25.9 | 25.9 | 8.1 8.1 | 8.1 | 27.4 27.6 | 27.5 | 81.7 77.1 | 79.4 | 5.7 5.4 | 5.5 | | 6.5 6.6 | 6.6 | 6.6 | 6.0 6.6 | 6.3 | 6.7 |
| | | | | | Bottom | 7.3 | 25.7 25.9 | 25.8 | 8.1 8.1 | 8.1 | 29.0 29.1 | 29.1 | 69.6 71.1 | 70.4 | 4.8 5.0 | 4.9 | 4.9 | 6.6 6.6 | 6.6 | | 7.0 7.9 | 7.5 | |
| 17-Aug-16 | Rainy | Moderate | 18:27 | | Surface | 1.0 | 26.8 26.8 | 26.8 | 8.4 8.4 | 8.4 | 25.5 25.5 | 25.5 | 93.3 93.3 | 93.3 | 6.5 6.5 | 6.5 | 6.5 | 5.6 5.5 | 5.6 | | 9.0 8.9 | 9.0 | |
| | | | | 8.6 | Middle | 4.3 | 26.8 26.8 | 26.8 | 8.4 8.4 | 8.4 | 25.5 25.5 | 25.5 | 93.2 93.2 | 93.2 | 6.5 6.5 | 6.5 | 0.0 | 5.8 5.7 | 5.8 | 5.8 | 9.2 9.9 | 9.6 | 9.4 |
| | | | | | Bottom | 7.6 | 26.8 26.8 | 26.8 | 8.4 8.4 | 8.4 | 25.5 25.5 | 25.5 | 93.1 92.9 | 93.0 | 6.5 6.4 | 6.4 | 6.4 | 5.9 5.9 | 5.9 | | 9.5 9.8 | 9.7 | |
| 19-Aug-16 | Fine | Moderate | 08:00 | | Surface | 1.0 | 26.3 26.3 | 26.3 | 8.2 8.2 | 8.2 | 26.8 26.8 | 26.8 | 74.7 82.1 | 78.4 | 5.2 5.7 | 5.4 | 5.4 | 9.0 8.9 | 9.0 | | 9.8 10.3 | 10.1 | |
| | | | | 8.6 | Middle | 4.3 | 26.2 26.2 | 26.2 | 8.2 8.2 | 8.2 | 26.8 26.9 | 26.8 | 74.0 77.5 | 75.8 | 5.1 5.4 | 5.3 | JF | 9.2 9.2 | 9.2 | 9.1 | 10.0 9.2 | 9.6 | 10.5 |
| | | | | | Bottom | 7.6 | 26.2 26.2 | 26.2 | 8.2 8.2 | 8.2 | 27.1 27.0 | 27.0 | 76.2 73.8 | 75.0 | 5.3 5.1 | 5.2 | 5.2 | 9.1 9.1 | 9.1 | | 12.0 11.4 | 11.7 | |

Remarks:

* DA: Depth-Averaged

** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at IS5 - Mid-FloodTide

| Date | Weather | Sea | Sampling | Water | Samp | ling | Tempera | ature (°C) | | οH | Salini | ty (ppt) | DO Satu | ration (%) | Dissol | ved Oxygen | (mg/L) | Т | urbidity(NT | U) | Susper | nded Solids | (mg/L) |
|-----------|-----------|-------------|----------|-----------|---------|------|--------------|------------|------------|---------|--------------|----------|----------------|------------|------------|------------|--------|------------|-------------|-----|--------------|-------------|--------|
| | Condition | Condition** | Time | Depth (m) | Depth | (m) | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | DA* | Value | Average | DA* | Value | Average | DA* |
| 22-Aug-16 | Sunny | Moderate | 10:15 | | Surface | 1.0 | 28.0 28.0 | 28.0 | 8.1 8.1 | 8.1 | 23.0 23.0 | 23.0 | 74.3 78.6 | 76.5 | 5.1 5.4 | 5.3 | 5.3 | 4.2 4.2 | 4.2 | | 6.0 7.0 | 6.5 | |
| | | | | 8.6 | Middle | 4.3 | 27.9 28.0 | 28.0 | 8.1 8.1 | 8.1 | 23.3 23.3 | 23.3 | 76.0 73.7 | 74.9 | 5.2 5.1 | 5.2 | 5.5 | 4.1 4.2 | 4.2 | 4.2 | 5.8 5.5 | 5.7 | 6.4 |
| | | | | | Bottom | 7.6 | 28.0 27.9 | 28.0 | 8.1 8.1 | 8.1 | 23.3 23.5 | 23.4 | 73.6 75.1 | 74.4 | 5.1 5.2 | 5.1 | 5.1 | 4.2 4.2 | 4.2 | | 6.6 7.6 | 7.1 | |
| 24-Aug-16 | Sunny | Moderate | 12:24 | | Surface | 1.0 | 28.9 29.0 | 28.9 | 8.3 8.3 | 8.3 | 23.4 23.3 | 23.3 | 75.8 78.2 | 77.0 | 5.1 5.3 | 5.2 | 5.2 | 5.3 5.5 | 5.4 | | 2.9 3.5 | 3.2 | |
| | | | | 8.7 | Middle | 4.4 | 28.4 28.4 | 28.4 | 8.2 8.3 | 8.3 | 23.8 24.1 | 24.0 | 75.4 76.6 | 76.0 | 5.1 5.2 | 5.2 | 0.2 | 5.6 5.6 | 5.6 | 5.5 | 2.6 3.0 | 2.8 | 3.1 |
| | | | | | Bottom | 7.7 | 28.1 28.1 | 28.1 | 8.2 8.2 | 8.2 | 25.8 25.8 | 25.8 | 73.0 73.2 | 73.1 | 5.0 5.0 | 5.0 | 5.0 | 5.6 5.5 | 5.6 | | 3.3 3.2 | 3.3 | |
| 26-Aug-16 | Sunny | Moderate | 12:56 | | Surface | 1.0 | 30.1 29.7 | 29.9 | 8.6 8.6 | 8.6 | 22.1 22.7 | 22.4 | 129.5 122.0 | 125.8 | 8.7 8.2 | 8.4 | 7.7 | 4.4 4.4 | 4.4 | | 6.3 6.6 | 6.5 | |
| | | | | 8.3 | Middle | 4.2 | 28.7 28.5 | 28.6 | 8.5 8.5 | 8.5 | 24.7 25.5 | 25.1 | 102.8 104.9 | 103.9 | 6.9 7.1 | 7.0 | 7.7 | 6.5 6.6 | 6.6 | 5.8 | 6.7 8.3 | 7.5 | 6.8 |
| | | | | | Bottom | 7.3 | 28.1 27.9 | 28.0 | 8.5 8.5 | 8.5 | 26.6 26.5 | 26.6 | 95.6 91.7 | 93.7 | 6.4 6.2 | 6.3 | 6.3 | 6.5 6.5 | 6.5 | | 6.5 6.2 | 6.4 | |
| 29-Aug-16 | Sunny | Moderate | 16:51 | | Surface | 1.0 | 28.2 28.1 | 28.2 | 8.5 8.4 | 8.5 | 25.7 26.0 | 25.9 | 87.8 88.3 | 88.1 | 5.9 6.0 | 6.0 | 5.8 | 5.3 5.5 | 5.4 | | 6.8 7.1 | 7.0 | |
| | | | | 8.5 | Middle | 4.3 | 27.9 27.8 | 27.9 | 8.4 8.4 | 8.4 | 27.0 26.9 | 26.9 | 80.7 82.5 | 81.6 | 5.4 5.6 | 5.5 | 5.0 | 5.5 5.5 | 5.5 | 5.5 | 8.5 7.4 | 8.0 | 7.8 |
| | | | | | Bottom | 7.5 | 28.0 27.8 | 27.9 | 8.4 8.4 | 8.4 | 29.0 29.3 | 29.2 | 76.3 77.0 | 76.7 | 5.2 5.2 | 5.2 | 5.2 | 5.6 5.5 | 5.6 | | 8.5 8.3 | 8.4 | |
| 31-Aug-16 | Sunny | Moderate | 17:56 | | Surface | 1.0 | 28.3 28.2 | 28.2 | 8.5 8.5 | 8.5 | 26.7 26.5 | 26.6 | 77.1 81.5 | 79.3 | 5.2 5.5 | 5.3 | 5.3 | 8.4 8.3 | 8.4 | _ | 9.6 9.1 | 9.4 | |
| | | | | 8.7 | Middle | 4.4 | 28.2 28.2 | 28.2 | 8.5 8.6 | 8.5 | 26.5 26.8 | 26.6 | 77.3 76.9 | 77.1 | 5.2 5.2 | 5.2 | 5.5 | 8.4 8.5 | 8.5 | 8.4 | 10.6 11.8 | 11.2 | 11.6 |
| | | | | | Bottom | 7.7 | 28.2 28.0 | 28.1 | 8.5 8.5 | 8.5 | 26.8 26.5 | 26.6 | 76.7 77.0 | 76.9 | 5.2 5.2 | 5.2 | 5.2 | 8.2 8.1 | 8.2 | | 14.9 13.6 | 14.3 | |

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

[^] As Tropical Cyclone Warning Signal No.3 or above was hoisted, water quality monitoring (except the monitoring locations named CSA, CS6, SR10B(N) and SR10A during Mid-Ebb Tide) was stopped according to the Contingency Plan for Impact Monitoring.

^{*} DA: Depth-Averaged

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at IS7 - Mid-EbbTide

| Date | Weather | Sea | Sampling | Water | Samp | ling | Temper | ature (°C) | | Н | Salini | ity (ppt) | DO Satu | ration (%) | Dissol | ved Oxygen | (mg/L) | Т | urbidity(NT | J) | Suspe | nded Solids | (mg/L) |
|-----------|-----------|-------------|----------|-----------|---------|------|--------------|------------|------------|---------|--------------|-----------|---------------|------------|------------|------------|--------|------------|-------------|----------|--------------|-------------|----------|
| | Condition | Condition** | Time | Depth (m) | Depth | (m) | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | DA* | Value | Average | DA* | Value | Average | DA* |
| 1-Aug-16^ | Cloudy | Moderate | - | | Surface | - | - | - | - | - | - | - | - | - | - | - | | - | - | | - | - | |
| | | | | - | Middle | - | - | - | - | - | - | - | - | - | - | - | - | - | - | <u>-</u> | - | - | <u>-</u> |
| | | | | | Bottom | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | - | - | |
| 3-Aug-16 | Cloudy | Moderate | 12:26 | | Surface | 1.0 | 26.1 | 26.1 | 8.1 | 8.1 | 26.3 | 26.3 | 77.4 | 77.5 | 5.4 | 5.4 | | 10.8 | 10.7 | | 10.8 | 11.1 | |
| | | | | 3.3 | Middle | - | 26.1 | - | 8.1 | - | 26.2 | - | 77.5 | - | 5.4 | - | 5.4 | 10.5 | - | 10.7 | 11.4 | - | 11.5 |
| | | | | | Bottom | 2.3 | 26.1 | 26.1 | 8.1 | 8.1 | 26.3 | 26.3 | 77.5 | 77.5 | 5.4 | 5.4 | 5.4 | 10.5 | 10.7 | | 11.5 | 11.8 | |
| 5-Aug-16 | Sunny | Moderate | 13:34 | | Surface | 1.0 | 26.1 27.2 | 27.2 | 8.1 8.2 | 8.2 | 26.3 23.6 | 23.6 | 77.5 76.5 | 76.7 | 5.4 5.3 | 5.3 | | 9.2 | 9.2 | | 12.0 5.1 | 5.3 | |
| | | | | 3.2 | Middle | | 27.3 | | 8.2 | | 23.6 | | 76.8 | - | 5.3 | - | 5.3 | 9.1 | | 9.3 | 5.4 | | 5.4 |
| | | | | 0.2 | Bottom | 2.2 | 26.9 | 27.0 | 8.3 | 8.3 | 23.9 | 23.8 | 76.4 | 76.4 | 5.3 | 5.3 | 5.3 | 9.2 | 9.4 | 0.0 | 5.7 | 5.5 | 0.4 |
| 8-Aug-16 | Sunny | Moderate | 15:35 | | Surface | 1.0 | 27.2 29.0 | 29.0 | 8.2 8.1 | 8.1 | 23.7 19.6 | 19.7 | 76.4 112.8 | 113.7 | 5.3 7.8 | 7.8 | 3.3 | 9.5 6.4 | 6.5 | | 5.2 7.4 | 8.6 | |
| | | | | 3.2 | Middle | 1.0 | 29.0 | 29.0 | 8.1 | 0.1 | 19.7 | 15.7 | 114.5 | 113.7 | 7.9 | 7.0 | 7.8 | 6.6 | 0.5 | 6.5 | 9.7 | - | 8.6 |
| | | | | 3.2 | | | 28.4 | 20.7 | - 8.1 | 0.4 | 20.8 | 20.0 | - 114.4 | 4444 | 7.9 | 7.0 | 7.0 | 6.5 | | 6.5 | 8.1 | | 0.0 |
| 10-Aug-16 | Rainy | Moderate | 16:46 | | Bottom | 2.2 | 29.0 28.1 | 28.7 | 8.1 8.4 | 8.1 | 20.3 | 20.6 | 114.3 88.3 | 114.4 | 7.9 6.2 | 7.9 | 7.9 | 6.5 3.5 | 6.5 | | 8.8 3.7 | 8.5 | |
| roring ro | rianiy | moderate | 10.10 | | Surface | 1.0 | 27.9 | 28.0 | 8.4 | 8.4 | 21.1 | 20.9 | 88.0 | 88.2 | 6.1 | 6.1 | 6.1 | 3.6 | 3.6 | | 4.0 | 3.9 | |
| | | | | 3.4 | Middle | - | 28.1 | - | 8.4 | - | 22.0 | - | 88.6 | - | 6.1 | - | | 3.7 | - | 3.6 | 3.2 | - | 3.9 |
| 10.1 10 | D.: | Madage | 00.57 | | Bottom | 2.4 | 27.8 | 27.9 | 8.3 | 8.4 | 22.7 | 22.4 | 88.6 | 88.6 | 6.1 | 6.1 | 6.1 | 3.5 | 3.6 | | 4.3 | 3.8 | |
| 12-Aug-16 | Rainy | Moderate | 08:57 | | Surface | 1.0 | 27.2 27.2 | 27.2 | 8.2 8.2 | 8.2 | 21.1 21.1 | 21.1 | 84.1 86.9 | 85.5 | 5.9 6.1 | 6.0 | 6.0 | 3.4 3.3 | 3.4 | | 3.0 3.5 | 3.3 | |
| | | | | 3.3 | Middle | - | - | - | - | - | - | - | - | - | - | - | | - | - | 3.5 | - | - | 3.2 |
| | | | | | Bottom | 2.3 | 26.9 26.8 | 26.9 | 8.2 8.2 | 8.2 | 23.3 23.2 | 23.3 | 83.3 85.2 | 84.3 | 5.9 6.0 | 5.9 | 5.9 | 3.5 3.5 | 3.5 | | 2.6 3.5 | 3.1 | |
| 15-Aug-16 | Cloudy | Moderate | 11:52 | | Surface | 1.0 | 27.0 26.6 | 26.8 | 8.2 8.2 | 8.2 | 25.1 25.3 | 25.2 | 81.7 80.4 | 81.1 | 5.5 5.4 | 5.5 | 5.5 | 4.4 4.6 | 4.5 | | 4.4 4.4 | 4.4 | |
| | | | | 3.2 | Middle | - | - | - | - | - | - | - | - | - | - | - | 0.0 | - | - | 4.6 | - | - | 5.2 |
| | | | | | Bottom | 2.2 | 26.0 26.4 | 26.2 | 8.2 8.2 | 8.2 | 27.2 27.1 | 27.2 | 80.1 78.1 | 79.1 | 5.4 5.3 | 5.4 | 5.4 | 4.6 4.6 | 4.6 | | 6.0 5.9 | 6.0 | |
| 17-Aug-16 | Rainy | Moderate | 13:00 | | Surface | 1.0 | 26.3 26.4 | 26.4 | 8.3 8.3 | 8.3 | 26.1 24.6 | 25.4 | 78.6 80.3 | 79.5 | 5.4 5.6 | 5.5 | | 5.2 5.3 | 5.3 | | 8.0 8.8 | 8.4 | |
| | | | | 3.4 | Middle | - | - | - | - | - | - | - | - | - | - | - | 5.5 | - | - | 5.4 | - | - | 11.2 |
| | | | | | Bottom | 2.4 | 26.4 26.4 | 26.4 | 8.3 8.3 | 8.3 | 26.4 25.9 | 26.2 | 75.2 76.0 | 75.6 | 5.2 5.3 | 5.3 | 5.3 | 5.5 5.4 | 5.5 | | 13.9 14.0 | 14.0 | |
| 19-Aug-16 | Fine | Moderate | 12:42 | | Surface | 1.0 | 26.5 26.5 | 26.5 | 8.3 8.3 | 8.3 | 27.1 27.1 | 27.1 | 76.7 76.6 | 76.7 | 5.3 5.3 | 5.3 | | 8.5 8.5 | 8.5 | | 10.7 9.3 | 10.0 | |
| | | | | 3.3 | Middle | - | - | - | - | - | - | - | - | - | - | - | 5.3 | - | - | 8.6 | - | - | 10.5 |
| | | | | | Bottom | 2.3 | 26.4 26.5 | 26.5 | 8.3 8.3 | 8.3 | 27.2 27.1 | 27.2 | 76.7 76.6 | 76.7 | 5.3 | 5.3 | 5.3 | 8.6 8.6 | 8.6 | | 11.1 | 10.9 | |

Remarks:

* DA: Depth-Averaged

** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at IS7 - Mid-EbbTide

| Date | Weather | Sea | Sampling | Water | Samp | ling | Temper | ature (°C) | | ЭΗ | Salini | ty (ppt) | DO Satu | ration (%) | Dissol | ved Oxygen | (mg/L) | 1 | urbidity(NT | J) | Suspe | nded Solids | (mg/L) د |
|-----------|-----------|-------------|----------|-----------|---------|------|--------------|------------|------------|---------|--------------|----------|----------------|------------|------------|------------|--------|------------|-------------|-----|------------|-------------|----------|
| | Condition | Condition** | Time | Depth (m) | Depth | (m) | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | DA* | Value | Average | DA* | Value | Average | DA* |
| 22-Aug-16 | Sunny | Moderate | 14:17 | | Surface | 1.0 | 28.6 28.7 | 28.7 | 8.2 8.2 | 8.2 | 20.4 20.0 | 20.2 | 87.2 78.3 | 82.8 | 6.0 5.4 | 5.7 | 5.7 | 5.1 5.4 | 5.3 | | 6.0 4.5 | 5.3 | |
| | | | | 3.2 | Middle | - | - | - | - | - | - | - | - | - | - | - | 0 | - | - | 5.4 | - | - | 5.4 |
| | | | | | Bottom | 2.2 | 28.4 28.2 | 28.3 | 8.2 8.2 | 8.2 | 21.1 21.3 | 21.2 | 78.2 78.1 | 78.2 | 5.4 5.4 | 5.4 | 5.4 | 5.2 5.5 | 5.4 | | 5.7 5.3 | 5.5 | |
| 24-Aug-16 | Sunny | Moderate | 16:24 | | Surface | 1.0 | 30.1 30.1 | 30.1 | 8.5 8.5 | 8.5 | 21.8 21.8 | 21.8 | 114.7 117.0 | 115.9 | 7.7 7.8 | 7.8 | 7.8 | 3.7 3.8 | 3.8 | | 5.4 4.5 | 5.0 | |
| | | | | 3.2 | Middle | - | | - | | - | | - | | - | | - | 7.0 | - | - | 3.8 | - | - | 5.1 |
| | | | | | Bottom | 2.2 | 29.6 29.7 | 29.7 | 8.4 8.5 | 8.4 | 22.3 22.2 | 22.3 | 113.9 113.1 | 113.5 | 7.7 7.6 | 7.6 | 7.6 | 3.7 3.9 | 3.8 | | 5.1 5.3 | 5.2 | |
| 26-Aug-16 | Sunny | Moderate | 08:18 | | Surface | 1.0 | 29.3 29.3 | 29.3 | 8.5 8.5 | 8.5 | 22.3 22.4 | 22.4 | 104.2 106.1 | 105.2 | 7.0 7.2 | 7.1 | 7.1 | 4.7 4.8 | 4.8 | | 5.5 5.8 | 5.7 | |
| | | | | 3.1 | Middle | i | | - | | - | | - | | - | | - | 7.1 | - | - | 4.8 | - | - | 5.6 |
| | | | | | Bottom | 2.1 | 29.1 29.0 | 29.1 | 8.4 8.4 | 8.4 | 23.8 23.9 | 23.8 | 103.5 102.0 | 102.8 | 7.0 6.9 | 7.0 | 7.0 | 4.8 4.8 | 4.8 | | 5.7 5.0 | 5.4 | |
| 29-Aug-16 | Sunny | Moderate | 11:49 | | Surface | 1.0 | 28.2 28.2 | 28.2 | 8.3 8.3 | 8.3 | 25.6 25.7 | 25.7 | 80.8 78.3 | 79.6 | 5.6 5.5 | 5.5 | 5.5 | 7.5 7.3 | 7.4 | | 5.9 5.3 | 5.6 | |
| | | | | 3.2 | Middle | • | | - | | - | | - | | - | | - | 3.3 | - | - | 7.4 | - | - | 5.9 |
| | | | | | Bottom | 2.2 | 28.1 27.6 | 27.9 | 8.3 8.3 | 8.3 | 27.4 28.4 | 27.9 | 80.0 76.9 | 78.5 | 5.5 5.3 | 5.4 | 5.4 | 7.4 7.2 | 7.3 | | 5.5 6.6 | 6.1 | |
| 31-Aug-16 | Sunny | Moderate | 13:16 | | Surface | 1.0 | 28.1 28.2 | 28.2 | 8.3 8.3 | 8.3 | 29.0 28.9 | 28.9 | 76.9 78.5 | 77.7 | 5.1 5.2 | 5.2 | 5.2 | 5.9 5.8 | 5.9 | | 9.7 8.5 | 9.1 | |
| | | | | 3.2 | Middle | - | - | - | | - | | - | 1 1 | - | | - | J.Z | - | - | 5.9 | - | - | 9.2 |
| | | | | | Bottom | 2.2 | 27.9 28.1 | 28.0 | 8.3 8.3 | 8.3 | 29.4 29.1 | 29.2 | 77.5 77.6 | 77.6 | 5.2 5.2 | 5.2 | 5.2 | 5.9 5.9 | 5.9 | | 9.2 9.3 | 9.3 | |

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

[^] As Tropical Cyclone Warning Signal No.3 or above was hoisted, water quality monitoring (except the monitoring locations named CSA, CS6, SR10B(N) and SR10A during Mid-Ebb Tide) was stopped according to the Contingency Plan for Impact Monitoring.

^{*} DA: Depth-Averaged

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at IS7 - Mid-FloodTide

| Date | Weather | Sea | Sampling | Water | Samp | ing | Tempera | ature (°C) | ŀ | Н | Salini | ty (ppt) | DO Satu | ration (%) | Dissol | ved Oxygen | (mg/L) | Т | urbidity(NT | U) | Suspe | nded Solids | s (mg/L) |
|-----------|-----------|-------------|----------|-----------|---------|-----|--------------|------------|------------|---------|--------------|----------|----------------|------------|------------|------------|--------|------------|-------------|----------|------------|-------------|--------------|
| | Condition | Condition** | Time | Depth (m) | Depth | (m) | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | DA* | Value | Average | DA* | Value | Average | DA* |
| 1-Aug-16^ | Cloudy | Moderate | - | | Surface | | - | - | - | - | - | - | - | - | - | - | | - | - | | - | - | |
| | | | | - | Middle | - | - | - | - | - | - | - | - | - | - | - | - | - | - | <u> </u> | - | - | <u> </u> |
| | | | | | Bottom | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | - | - | |
| 3-Aug-16 | Cloudy | Moderate | 07:15 | | Surface | 1.0 | 26.2 | 26.2 | 8.3 | 8.3 | 26.9 | 27.0 | 82.7 | 81.2 | 5.8 | 5.6 | | 5.7 | 5.7 | | 5.8 | 6.1 | |
| | | | | 3.3 | Middle | 1.0 | 26.2 | - | 8.3 | 0.0 | 27.0 | - | 79.7 - | - | 5.5 - | 5.0 | 5.6 | 5.6 | - | 5.7 | 6.3 | - | 7.6 |
| | | | | 0.0 | Bottom | 2.3 | 26.1 | 26.1 | 8.3 | 8.3 | 27.2 | 27.2 | - 87.5 | 84.2 | 6.1 | 5.8 | 5.8 | 5.6 | 5.6 | 0.7 | 9.3 | 9.1 | - 7.0 |
| F. A 40 | C | Madazata | 00.22 | | Dottom | 2.0 | 26.1 26.8 | 20.1 | 8.3 8.1 | 0.0 | 27.3 22.7 | 21.2 | 80.8 80.7 | 04.2 | 5.6 5.8 | 3.0 | 3.0 | 5.6 3.6 | 5.0 | | 8.8 3.8 | 3.1 | <u> </u> |
| 5-Aug-16 | Sunny | Moderate | 08:33 | | Surface | 1.0 | 26.8 | 26.8 | 8.1 | 8.1 | 22.7 | 22.7 | 80.9 | 80.8 | 5.8 | 5.8 | 5.8 | 3.6 | 3.6 | | 3.3 | 3.6 | _ |
| | | | | 3.2 | Middle | - | | - | - | - | - | - | - | - | | - | | - | - | 3.7 | - | - | 3.8 |
| | | | | | Bottom | 2.2 | 26.7 26.8 | 26.7 | 8.1 8.1 | 8.1 | 23.3 23.5 | 23.4 | 80.5 80.7 | 80.6 | 5.7 5.7 | 5.7 | 5.7 | 3.7 3.7 | 3.7 | | 3.4 4.5 | 4.0 | |
| 8-Aug-16 | Sunny | Moderate | 10:20 | | Surface | 1.0 | 28.5 28.4 | 28.5 | 8.1 8.1 | 8.1 | 20.1 20.2 | 20.1 | 81.0 81.1 | 81.1 | 5.6 5.6 | 5.6 | | 4.3 4.5 | 4.4 | | 4.4 3.8 | 4.1 | |
| | | | | 3.4 | Middle | - | - | - | - | - | - | - | - | - | - | - | 5.6 | - | - | 4.4 | - | - | 3.6 |
| | | | | | Bottom | 2.4 | 28.4 | 28.4 | 8.1 | 8.1 | 20.9 | 20.7 | 81.0 | 81.1 | 5.6 | 5.6 | 5.6 | 4.4 | 4.4 | | 2.7 | 3.1 | |
| 10-Aug-16 | Rainy | Moderate | 12:36 | | Surface | 1.0 | 28.4 28.3 | 28.3 | 8.1 8.3 | 8.3 | 20.5 19.9 | 19.8 | 81.1 94.2 | 94.3 | 5.6 6.6 | 6.6 | | 4.4 5.1 | 5.2 | | 3.4 2.9 | 2.6 | <u> </u> |
| | | | | 3.4 | Middle | - | 28.3 | | 8.3 | - | 19.8 | - | 94.4 | | 6.6 | - | 6.6 | 5.2 | - | 5.2 | 2.3 | | 3.0 |
| | | | | 3.4 | | 0.4 | 28.4 | 00.0 | 8.3 | | 20.8 | | 93.5 | | 6.5 | 0.5 | 0.5 | 5.2 | | 5.2 | 3.0 | | 3.0 |
| | | | 11.10 | | Bottom | 2.4 | 28.3 | 28.3 | 8.3 | 8.3 | 21.1 | 20.9 | 94.4 | 94.0 | 6.5 | 6.5 | 6.5 | 5.2 | 5.2 | | 3.8 | 3.4 | <u> </u> |
| 12-Aug-16 | Fine | Moderate | 14:16 | | Surface | 1.0 | 27.3 27.3 | 27.3 | 8.2 8.2 | 8.2 | 22.5 22.4 | 22.5 | 89.5 83.5 | 86.5 | 6.3 5.8 | 6.0 | 6.0 | 3.5 3.6 | 3.6 | | 3.9 3.7 | 3.8 | |
| | | | | 3.3 | Middle | - | 1 1 | - | - | - | - | - | - | - | | - | | - | - | 3.6 | - | - | 3.7 |
| | | | | | Bottom | 2.3 | 27.3 27.3 | 27.3 | 8.2 8.2 | 8.2 | 23.0 24.3 | 23.6 | 79.8 79.6 | 79.7 | 5.6 5.6 | 5.6 | 5.6 | 3.5 3.5 | 3.5 | | 3.3 3.8 | 3.6 | |
| 15-Aug-16 | Cloudy | Moderate | 17:18 | | Surface | 1.0 | 28.0 27.6 | 27.8 | 8.4 8.4 | 8.4 | 23.1 22.6 | 22.9 | 111.0 107.3 | 109.2 | 7.7 7.5 | 7.6 | | 3.6 3.8 | 3.7 | | 6.6 7.0 | 6.8 | |
| | | | | 3.3 | Middle | - | - | - | - | - | - | _ | - | - | - | - | 7.6 | - | - | 3.7 | - | - | 6.2 |
| | | | | | Bottom | 2.3 | 27.4 | 27.1 | 8.4 | 8.4 | 24.7 | 25.2 | 107.2 | 106.0 | 7.4 | 7.3 | 7.3 | 3.6 | 3.6 | | 6.0 | 5.6 | |
| 17-Aug-16 | Rainy | Moderate | 18:41 | | Surface | 1.0 | 26.7 26.7 | 26.8 | 8.4 8.4 | 8.4 | 25.6 25.8 | 25.8 | 104.8 96.5 | 96.6 | 7.2 6.7 | 6.7 | | 3.6 6.3 | 6.3 | | 5.2 4.2 | 4.9 | |
| | | | | 3.4 | Middle | | 26.8 | - | 8.4 | - | 25.7 | - | 96.7 | - | 6.7 | | 6.7 | 6.2 | - | 6.5 | 5.5 | - | 5.8 |
| | | | | 0.4 | | 2.4 | 26.8 | 26.7 | 8.4 | 8.4 | 25.8 | 25.8 | - 95.8 | 95.9 | 6.6 | 6.6 | 6.6 | 6.6 | 6.6 | 0.0 | 6.4 | 6.7 | - 0.0 |
| 19-Aug-16 | Fine | Moderate | 07:42 | | Bottom | | 26.7 26.2 | | 8.4 8.2 | | 25.8 27.0 | | 95.9 81.4 | | 6.6 5.7 | | 0.0 | 6.5 3.4 | | | 7.0 4.5 | | |
| 5 | | | | | Surface | 1.0 | 26.2 | 26.2 | 8.2 | 8.2 | 27.1 | 27.0 | 81.7 | 81.6 | 5.7 | 5.7 | 5.7 | 3.5 | 3.5 | | 3.8 | 4.2 | - |
| | | | | 3.2 | Middle | - | - | - | - | - | - | - | - | - | - | - | | - | - | 3.5 | - | - | 4.0 |
| | | | | | Bottom | 2.2 | 26.1 26.2 | 26.2 | 8.2 8.2 | 8.2 | 27.6 27.2 | 27.4 | 81.2 81.6 | 81.4 | 5.7 5.7 | 5.7 | 5.7 | 3.5 3.5 | 3.5 | | 3.5 4.0 | 3.8 | |

Remarks:

* DA: Depth-Averaged

** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at IS7 - Mid-FloodTide

| Date | Weather | Sea | Sampling | Water | Samp | ling | Temper | ature (°C) | | ρΗ | Salini | ty (ppt) | DO Satu | ration (%) | Dissol | ved Oxygen | (mg/L) | 1 | urbidity(NT | J) | Susper | nded Solids | (mg/L) د |
|-----------|-----------|-------------|----------|-----------|---------|------|--------------|------------|------------|---------|--------------|----------|--------------|------------|------------|------------|--------|--------------|-------------|------|--------------|-------------|----------|
| | Condition | Condition** | Time | Depth (m) | Depth | (m) | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | DA* | Value | Average | DA* | Value | Average | DA* |
| 22-Aug-16 | Sunny | Moderate | 09:55 | | Surface | 1.0 | 28.1 28.1 | 28.1 | 8.1 8.1 | 8.1 | 22.1 21.9 | 22.0 | 76.3 78.3 | 77.3 | 5.3 5.4 | 5.4 | 5.4 | 2.7 2.8 | 2.8 | | 3.6 3.9 | 3.8 | |
| | | | | 3.3 | Middle | - | - | - | - | - | - | - | - | - | - | - | 0.4 | - | - | 2.8 | - | - | 4.5 |
| | | | | | Bottom | 2.3 | 28.0 28.0 | 28.0 | 8.1 8.1 | 8.1 | 22.5 22.3 | 22.4 | 80.0 77.1 | 78.6 | 5.5 5.3 | 5.4 | 5.4 | 2.8 2.8 | 2.8 | | 4.6 5.7 | 5.2 | |
| 24-Aug-16 | Sunny | Moderate | 12:09 | | Surface | 1.0 | 28.7 28.6 | 28.7 | 8.2 8.2 | 8.2 | 23.2 23.4 | 23.3 | 77.9 77.8 | 77.9 | 5.3 5.3 | 5.3 | 5.3 | 5.3 5.2 | 5.3 | | 2.9 2.9 | 2.9 | |
| | | | | 3.4 | Middle | 1 | | - | 1 1 | - | | - | - | - | | - | 5.5 | - | - | 5.3 | | - | 2.8 |
| | | | | | Bottom | 2.4 | 28.7 28.6 | 28.6 | 8.2 8.2 | 8.2 | 23.4 23.7 | 23.6 | 78.0 77.2 | 77.6 | 5.3 5.3 | 5.3 | 5.3 | 5.1 5.3 | 5.2 | | 2.8 2.5 | 2.7 | |
| 26-Aug-16 | Sunny | Moderate | 13:15 | | Surface | 1.0 | 29.2 29.1 | 29.1 | 8.5 8.5 | 8.5 | 23.0 23.1 | 23.0 | 93.8 93.9 | 93.9 | 6.3 6.4 | 6.3 | 6.3 | 11.2 11.4 | 11.3 | | 3.6 4.6 | 4.1 | |
| | | | | 3.2 | Middle | - | - | - | - | - | - | - | - | - | - | - | 0.5 | - | - | 11.2 | - | - | 7.3 |
| | | | | | Bottom | 2.2 | 28.8 29.0 | 28.9 | 8.5 8.5 | 8.5 | 24.5 24.6 | 24.6 | 90.4 94.6 | 92.5 | 6.1 6.4 | 6.2 | 6.2 | 11.1 11.1 | 11.1 | | 10.4 10.5 | 10.5 | |
| 29-Aug-16 | Sunny | Moderate | 17:10 | | Surface | 1.0 | 28.1 28.3 | 28.2 | 8.4 8.4 | 8.4 | 26.1 25.9 | 26.0 | 94.1 95.5 | 94.8 | 6.4 6.5 | 6.4 | 6.4 | 5.6 5.5 | 5.6 | | 5.2 6.0 | 5.6 | |
| | | | | 3.3 | Middle | ı | | - | 1 1 | - | | - | - | - | | - | 0.4 | - | - | 5.6 | | - | 6.9 |
| | | | | | Bottom | 2.3 | 27.9 28.2 | 28.1 | 8.3 8.4 | 8.3 | 27.2 28.2 | 27.7 | 97.7 96.8 | 97.3 | 6.6 6.5 | 6.5 | 6.5 | 5.6 5.6 | 5.6 | | 7.4 9.0 | 8.2 | |
| 31-Aug-16 | Sunny | Moderate | 18:12 | | Surface | 1.0 | 28.3 28.3 | 28.3 | 8.4 8.5 | 8.5 | 27.6 27.6 | 27.6 | 76.4 76.4 | 76.4 | 5.1 5.1 | 5.1 | 5.1 | 8.6 8.5 | 8.6 | _ | 4.2 4.9 | 4.6 | |
| | | | | 3.3 | Middle | - | - | - | - | - | - | - | - | - | - | - | 3.1 | - | - | 8.6 | - | - | 5.4 |
| | | | | | Bottom | 2.3 | 28.2 28.3 | 28.3 | 8.5 8.4 | 8.5 | 27.7 27.6 | 27.6 | 77.8 76.8 | 77.3 | 5.2 5.1 | 5.2 | 5.2 | 8.6 8.6 | 8.6 | | 5.5 6.6 | 6.1 | |

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

[^] As Tropical Cyclone Warning Signal No.3 or above was hoisted, water quality monitoring (except the monitoring locations named CSA, CS6, SR10B(N) and SR10A during Mid-Ebb Tide) was stopped according to the Contingency Plan for Impact Monitoring.

^{*} DA: Depth-Averaged

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at IS8 - Mid-EbbTide

| Date | Weather | Sea | Sampling | Water | Samp | ling | Temper | ature (°C) | | Н | Salini | ty (ppt) | DO Satu | ration (%) | Dissol | ed Oxygen | (mg/L) | Т | urbidity(NTl | J) | Suspe | nded Solids | s (mg/L) |
|-----------|-----------|-------------|----------|-----------|---------|------|--------------|------------|------------|---------|--------------|----------|---------------|------------|------------|-----------|--------|------------|--------------|----------|------------|-------------|----------|
| | Condition | Condition** | Time | Depth (m) | Depth | (m) | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | DA* | Value | Average | DA* | Value | Average | DA* |
| 1-Aug-16^ | Cloudy | Moderate | - | | Surface | - | - | - | - | - | - | - | - | - | - | - | | - | - | | - | - | |
| | | | | - | Middle | - | - | - | - | - | - | - | - | - | - | - | - | - | - | <u>-</u> | - | - | <u> </u> |
| | | | | | Bottom | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | - | - | |
| 3-Aug-16 | Cloudy | Moderate | 12:46 | | Surface | 1.0 | 26.2 | 26.2 | 8.2 | 8.2 | 26.2 | 26.2 | 84.8 | 84.8 | 5.9 | 5.9 | | 3.9 | 3.9 | | 4.4 | 5.1 | |
| | | | | 4.2 | Middle | _ | 26.2 | - | 8.2 | - | 26.2 | - | 84.8 | - | 5.9 - | - | 5.9 | 3.8 | - | 3.9 | 5.7 | - | 5.4 |
| | | | | | Bottom | 3.2 | 26.2 | 26.2 | 8.2 | 8.2 | 26.4 | 26.3 | 85.0 | 85.0 | 5.9 | 5.9 | 5.9 | 3.8 | 3.9 | | 5.4 | 5.7 | 1 |
| 5-Aug-16 | Sunny | Moderate | 14:07 | | Surface | 1.0 | 26.2 27.5 | 27.6 | 8.2 8.2 | 8.2 | 26.3 23.2 | 23.1 | 84.9 74.5 | 77.5 | 5.9 5.2 | 5.4 | | 3.9 6.7 | 6.7 | | 6.0 3.8 | 3.7 | |
| | | | | 4.4 | Middle | 1.0 | 27.8 | - | 8.2 | - | 22.9 | - | 80.5 | - | 5.6 - | 0.4 | 5.4 | 6.6 | - | 6.7 | 3.6 | - | 3.7 |
| | | | | 4.4 | | 3.4 | - 27.1 | 27.0 | 8.2 | 8.2 | 24.0 | 24.0 | - 74.1 | 76.1 | - 5.1 | 5.3 | 5.3 | 6.5 | 6.6 | 0.7 | 3.2 | 3.7 | 3.7 |
| 8-Aug-16 | Sunny | Moderate | 15:57 | 1 | Bottom | | 27.0 28.9 | | 8.2 8.1 | | 24.0 20.9 | | 78.1 132.6 | | 5.4 9.1 | | 5.3 | 6.6 5.1 | | | 4.2 7.2 | | |
| | , | | | | Surface | 1.0 | 28.8 | 28.9 | 8.1 | 8.1 | 20.9 | 20.9 | 137.3 | 135.0 | 9.4 | 9.3 | 9.3 | 5.0 | 5.1 | | 8.6 | 7.9 | |
| | | | | 4.0 | Middle | - | 28.7 | - | - 8.1 | - | 21.0 | - | 130.6 | - | 9.0 | - | | - 5.1 | - | 5.2 | 10.8 | - | 9.2 |
| 40.440 | Rainy | Madagata | 17:07 | | Bottom | 3.0 | 29.0 | 28.9 | 8.1 | 8.1 | 20.9 | 21.0 | 131.2 88.3 | 130.9 | 9.0 | 9.0 | 9.0 | 5.2 | 5.2 | | 9.9 | 10.4 | <u> </u> |
| 10-Aug-16 | Rally | Moderate | 17.07 | | Surface | 1.0 | 28.2 28.3 | 28.3 | 8.4 8.4 | 8.4 | 20.7 20.6 | 20.6 | 92.2 | 90.3 | 6.1 6.4 | 6.3 | 6.3 | 3.8 | 3.9 | | 1.3 1.4 | 1.4 | - |
| | | | | 4.1 | Middle | - | - | - | - | - | - | - | - | - | - | - | | - | - | 3.9 | - | - | 1.6 |
| | | | | | Bottom | 3.1 | 28.2 27.6 | 27.9 | 8.4 8.3 | 8.3 | 23.3 24.0 | 23.7 | 90.4 90.6 | 90.5 | 6.2 6.3 | 6.2 | 6.2 | 3.8 3.8 | 3.8 | | 1.7 1.7 | 1.7 | |
| 12-Aug-16 | Rainy | Moderate | 08:30 | | Surface | 1.0 | 27.1 27.2 | 27.1 | 8.2 8.2 | 8.2 | 22.4 22.0 | 22.2 | 75.0 77.1 | 76.1 | 5.3 5.4 | 5.3 | 5.3 | 5.3 5.4 | 5.4 | | 0.8 0.7 | 8.0 | |
| | | | | 4.0 | Middle | - | - | - | - | - | | - | | - | - | - | 5.5 | - | - | 5.4 | - | - | 1.7 |
| | | | | | Bottom | 3.0 | 27.1 26.4 | 26.8 | 8.2 8.2 | 8.2 | 26.5 27.3 | 26.9 | 71.4 69.3 | 70.4 | 4.9 4.9 | 4.9 | 4.9 | 5.1 5.5 | 5.3 | | 2.7 2.4 | 2.6 | |
| 15-Aug-16 | Cloudy | Moderate | 11:31 | | Surface | 1.0 | 27.3 26.9 | 27.1 | 8.3 8.3 | 8.3 | 23.9 24.9 | 24.4 | 90.4 92.5 | 91.5 | 6.1 6.3 | 6.2 | | 3.9 4.0 | 4.0 | | 6.2 5.5 | 5.9 | |
| | | | | 3.7 | Middle | - | - | - | - | - | - | - | - | - | - | - | 6.2 | - | - | 4.1 | - | - | 5.9 |
| | | | | | Bottom | 2.7 | 27.1 26.9 | 27.0 | 8.3 8.3 | 8.3 | 25.6 25.8 | 25.7 | 84.9 82.2 | 83.6 | 5.7 5.6 | 5.7 | 5.7 | 4.0 4.1 | 4.1 | | 5.9 5.8 | 5.9 | 1 |
| 17-Aug-16 | Rainy | Moderate | 12:35 | | Surface | 1.0 | 26.2 26.6 | 26.4 | 8.3 8.3 | 8.3 | 25.6 25.4 | 25.5 | 83.2 78.9 | 81.1 | 5.8 5.5 | 5.6 | | 4.9 5.1 | 5.0 | | 5.8 6.2 | 6.0 | |
| | | | | 3.7 | Middle | - | - | - | - | - | - | - | - | - | - | - | 5.6 | - | - | 5.4 | - | - | 6.3 |
| | | | | | Bottom | 2.7 | 26.5 | 26.5 | 8.3 | 8.3 | 26.5 | 26.5 | 76.0 | 76.5 | 5.3 | 5.3 | 5.3 | 5.6 | 5.7 | | 6.9 | 6.6 | 1 |
| 19-Aug-16 | Fine | Moderate | 13:12 | | Surface | 1.0 | 26.5 26.5 | 26.5 | 8.3 8.2 | 8.2 | 26.5 27.0 | 27.0 | 76.9 79.3 | 79.4 | 5.3 5.5 | 5.5 | | 5.7 | 5.1 | | 9.4 | 9.1 | |
| | | | | 4.1 | Middle | | 26.5 | - | 8.2 | _ | 27.0 | _ | 79.5 - | - | 5.5 - | _ | 5.5 | 5.0 | _ | 5.1 | 8.7 | - | 8.9 |
| | | | | "" | Bottom | 3.1 | 26.5 | 26.5 | 8.2 | 8.2 | 27.0 | 27.0 | 79.4 | 79.4 | - 5.5 | 5.5 | 5.5 | 5.0 | 5.1 | · · · | 9.1 | 8.7 | 1 |
| | | | | | DOMOITI | J. I | 26.4 | 20.5 | 8.2 | 0.2 | 27.1 | 21.0 | 79.4 | 13.4 | 5.5 | 0.0 | 0.0 | 5.1 | J. I | | 8.3 | 0.7 | |

Remarks:

* DA: Depth-Averaged

** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at IS8 - Mid-EbbTide

| Date | Weather | Sea | Sampling | Water | Samp | ling | Tempera | ature (°C) | ŗ | Н | Salini | ty (ppt) | DO Satu | ration (%) | Dissol | ved Oxygen | (mg/L) | Т | urbidity(NT | U) | Susper | nded Solids | (mg/L) |
|-----------|-----------|-------------|----------|-----------|---------|------|--------------|------------|------------|---------|--------------|----------|----------------|------------|------------|------------|--------|------------|-------------|-----|------------|-------------|--------|
| | Condition | Condition** | Time | Depth (m) | Depth | (m) | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | DA* | Value | Average | DA* | Value | Average | DA* |
| 22-Aug-16 | Sunny | Moderate | 14:51 | | Surface | 1.0 | 28.4 28.4 | 28.4 | 8.1 8.1 | 8.1 | 21.0 21.1 | 21.0 | 85.6 86.1 | 85.9 | 6.1 6.1 | 6.1 | 6.1 | 6.7 6.8 | 6.8 | | 6.3 6.2 | 6.3 | |
| | | | | 4.0 | Middle | - | - | - | | - | | - | - | - | | - | 0.1 | - | - | 6.8 | - | - | 6.7 |
| | | | | | Bottom | 3.0 | 28.1 28.3 | 28.2 | 8.1 8.1 | 8.1 | 22.3 22.1 | 22.2 | 85.3 85.5 | 85.4 | 6.1 6.1 | 6.1 | 6.1 | 6.6 6.7 | 6.7 | | 6.2 8.0 | 7.1 | |
| 24-Aug-16 | Sunny | Moderate | 16:42 | | Surface | 1.0 | 30.1 30.2 | 30.1 | 8.4 8.4 | 8.4 | 22.0 21.9 | 21.9 | 91.9 91.4 | 91.7 | 6.2 6.2 | 6.2 | 6.2 | 5.6 5.8 | 5.7 | | 2.6 2.9 | 2.8 | |
| | | | | 4.0 | Middle | - | - | - | | - | | - | - | - | | - | 0.2 | - | - | 5.7 | - | - | 3.6 |
| | | | | | Bottom | 3.0 | 28.4 28.7 | 28.6 | 8.4 8.4 | 8.4 | 24.3 23.8 | 24.1 | 87.3 89.4 | 88.4 | 5.9 6.0 | 5.9 | 5.9 | 5.5 5.7 | 5.6 | | 4.7 3.8 | 4.3 | |
| 26-Aug-16 | Sunny | Moderate | 07:53 | | Surface | 1.0 | 29.3 29.3 | 29.3 | 8.4 8.4 | 8.4 | 22.1 22.1 | 22.1 | 106.1 103.6 | 104.9 | 7.1 7.0 | 7.1 | 7.1 | 6.5 6.1 | 6.3 | | 5.6 5.5 | 5.6 | |
| | | | | 3.9 | Middle | - | - | - | - | - | - | - | - | - | - | - | 7.1 | - | - | 6.3 | - | - | 6.4 |
| | | | | | Bottom | 2.9 | 29.3 28.9 | 29.1 | 8.4 8.3 | 8.4 | 24.0 24.3 | 24.1 | 101.8 100.2 | 101.0 | 6.9 6.7 | 6.8 | 6.8 | 6.2 6.1 | 6.2 | | 7.1 7.1 | 7.1 | |
| 29-Aug-16 | Sunny | Moderate | 11:26 | | Surface | 1.0 | 28.3 28.6 | 28.4 | 8.4 8.3 | 8.4 | 23.9 24.6 | 24.2 | 80.5 77.0 | 78.8 | 5.6 5.4 | 5.5 | 5.5 | 5.4 5.5 | 5.5 | | 5.0 5.7 | 5.4 | |
| | | | | 3.9 | Middle | - | - | - | - | - | - | - | - | - | - | - | 5.5 | - | - | 5.5 | - | - | 6.2 |
| | | | | | Bottom | 2.9 | 28.4 27.8 | 28.1 | 8.3 8.3 | 8.3 | 27.7 27.6 | 27.6 | 79.9 76.9 | 78.4 | 5.4 5.3 | 5.3 | 5.3 | 5.4 5.5 | 5.5 | | 7.1 6.9 | 7.0 | |
| 31-Aug-16 | Sunny | Moderate | 12:51 | | Surface | 1.0 | 28.4 28.5 | 28.4 | 8.4 8.4 | 8.4 | 29.0 28.9 | 29.0 | 81.9 83.0 | 82.5 | 5.4 5.5 | 5.5 | 5.5 | 8.8 8.8 | 8.8 | | 4.6 5.4 | 5.0 | |
| | | | | 3.8 | Middle | - | - | - | 1 1 | - | | - | - | - | 1 1 | - | 5.5 | - | - | 8.9 | - | - | 5.0 |
| | | | | | Bottom | 2.8 | 28.4 28.0 | 28.2 | 8.4 8.4 | 8.4 | 29.1 29.3 | 29.2 | 82.6 85.8 | 84.2 | 5.5 5.7 | 5.6 | 5.6 | 8.9 8.8 | 8.9 | | 5.3 4.6 | 5.0 | |

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

[^] As Tropical Cyclone Warning Signal No.3 or above was hoisted, water quality monitoring (except the monitoring locations named CSA, CS6, SR10B(N) and SR10A during Mid-Ebb Tide) was stopped according to the Contingency Plan for Impact Monitoring.

^{*} DA: Depth-Averaged

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at IS8 - Mid-FloodTide

| Date | Weather | Sea | Sampling | Water | Sampl | ing | Tempera | ature (°C) | ţ | Н | Salini | ty (ppt) | DO Satu | ration (%) | Dissol | ed Oxygen | (mg/L) | Т | urbidity(NT | U) | Suspe | ended Solids | s (mg/L) |
|-----------|-----------|-------------|----------|-----------|---------|-----|--------------|------------|------------|---------|--------------|----------|----------------|------------|------------|-----------|--------|--------------|-------------|----------|--------------|--------------|----------|
| | Condition | Condition** | Time | Depth (m) | Depth | (m) | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | DA* | Value | Average | DA* | Value | Average | DA* |
| 1-Aug-16^ | Cloudy | Moderate | - | | Surface | | | - | - | - | - | - | - | - | - | - | | - | - | | - | - | |
| | | | | - | Middle | - | - | - | - | - | - | - | - | - | - | - | - | - | - | <u> </u> | - | - | <u> </u> |
| | | | | | Bottom | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | - | - | |
| 3-Aug-16 | Cloudy | Moderate | 06:41 | | Surface | 1.0 | 26.2 | 26.2 | 8.3 | 8.3 | 27.6 | 27.6 | 81.2 | 80.9 | 5.6 | 5.6 | | 5.6 | 5.6 | | 7.0 | 7.2 | 1 |
| | | | | 4.0 | Middle | - | 26.2 | - | 8.3 | - | 27.5 | - | 80.5 | - | 5.6 - | - | 5.6 | 5.5 | - | 5.6 | 7.4 | - | 7.3 |
| | | | | | Bottom | 3.0 | 26.2 | 26.2 | 8.3 | 8.3 | 27.7 | 27.9 | 80.9 | 82.1 | 5.6 | 5.7 | 5.7 | 5.6 | 5.6 | 0.0 | 7.1 | 7.3 | |
| F Aug 16 | Sunny | Moderate | 08:10 | | Dottom | 0.0 | 26.1 26.9 | | 8.3 8.1 | | 28.2 22.4 | | 83.2 73.9 | 02.1 | 5.7 5.2 | 0.7 | 0.7 | 5.5 9.5 | 0.0 | | 7.5 5.1 | 7.0 | <u> </u> |
| 5-Aug-16 | Suring | Woderate | 06.10 | | Surface | 1.0 | 26.9 | 26.9 | 8.1 | 8.1 | 22.5 | 22.5 | 78.9 | 76.4 | 5.5 | 5.4 | 5.4 | 9.6 | 9.6 | | 5.1 | 5.1 | _ |
| | | | | 4.2 | Middle | - | - | - | - | - | - | - | - | - | - | - | | - | - | 9.6 | - | - | 5.5 |
| | | | | | Bottom | 3.2 | 26.7 26.8 | 26.8 | 8.1 8.1 | 8.1 | 23.5 23.0 | 23.3 | 75.1 72.9 | 74.0 | 5.3 5.1 | 5.2 | 5.2 | 9.5 9.6 | 9.6 | | 5.9 5.7 | 5.8 | |
| 8-Aug-16 | Sunny | Moderate | 09:57 | | Surface | 1.0 | 28.5 28.4 | 28.4 | 8.1 8.1 | 8.1 | 20.4 20.5 | 20.4 | 80.1 80.0 | 80.1 | 5.6 5.6 | 5.6 | | 11.8 11.1 | 11.5 | | 11.1 9.5 | 10.3 | |
| | | | | 4.1 | Middle | - | - | - | - | - | - | - | - | - | - | - | 5.6 | - | - | 11.4 | - | - | 13.1 |
| | | | | | Bottom | 3.1 | 28.3 28.5 | 28.4 | 8.0 8.0 | 8.0 | 20.8 20.5 | 20.7 | 81.0 80.2 | 80.6 | 5.6 5.6 | 5.6 | 5.6 | 11.4 11.2 | 11.3 | | 15.3 16.5 | 15.9 | • |
| 10-Aug-16 | Rainy | Moderate | 12:14 | | Surface | 1.0 | 28.2 | 28.2 | 8.3 | 8.3 | 20.2 | 20.2 | 91.8 | 90.6 | 6.4 | 6.3 | | 5.2 | 5.2 | | 2.6 | 2.8 | |
| | | | | 3.8 | Middle | - | 28.2 | _ | 8.3 | - | 20.3 | - | 89.3 | - | 6.2 | - | 6.3 | 5.2 | - | 5.2 | 2.9 | - | 2.5 |
| | | | | | Bottom | 2.8 | 28.2 | 28.2 | 8.3 | 8.3 | 20.5 | 20.6 | 88.2 | 89.2 | 6.2 | 6.2 | 6.2 | 5.1 | 5.2 | | 2.0 | 2.2 | |
| 12-Aug-16 | Fine | Moderate | 14:38 | | | | 28.2 27.6 | | 8.3 8.2 | | 20.7 21.5 | | 90.2 74.7 | | 6.3 5.2 | | 0.2 | 5.2 8.6 | | | 2.3 | | <u> </u> |
| 12-Aug-16 | rine | Woderate | 14.30 | | Surface | 1.0 | 27.5 | 27.6 | 8.2 | 8.2 | 21.7 | 21.6 | 82.4 | 78.6 | 5.7 | 5.5 | 5.5 | 8.5 | 8.6 | | 2.4 | 2.6 | _ |
| | | | | 3.9 | Middle | - | - | - | - | - | - | - | - | - | - | - | | - | - | 8.6 | - | - | 3.0 |
| | | | | | Bottom | 2.9 | 27.4 27.2 | 27.3 | 8.2 8.2 | 8.2 | 23.0 24.5 | 23.8 | 73.9 75.5 | 74.7 | 5.2 5.3 | 5.2 | 5.2 | 8.4 8.6 | 8.5 | | 3.1 3.5 | 3.3 | |
| 15-Aug-16 | Cloudy | Moderate | 17:43 | | Surface | 1.0 | 27.4 27.3 | 27.4 | 8.5 8.5 | 8.5 | 23.8 23.8 | 23.8 | 101.3 104.7 | 103.0 | 7.0 7.3 | 7.1 | | 11.5 11.2 | 11.4 | | 11.4 10.2 | 10.8 | |
| | | | | 3.8 | Middle | - | - | - | - | - | - | - | - | - | - | - | 7.1 | - | - | 11.3 | - | - | 10.9 |
| | | | | | Bottom | 2.8 | 26.9 27.2 | 27.1 | 8.4 8.4 | 8.4 | 25.1 25.0 | 25.0 | 100.2 | 102.7 | 7.0 7.3 | 7.1 | 7.1 | 11.2 11.1 | 11.2 | | 11.0 11.0 | 11.0 | |
| 17-Aug-16 | Rainy | Moderate | 19:07 | | Surface | 1.0 | 26.5 | 26.6 | 8.3 | 8.3 | 26.4 | 26.4 | 75.2 | 75.4 | 5.2 | 5.2 | | 11.3 | 11.3 | | 15.6 | 15.9 | |
| | | | | 3.8 | Middle | | 26.6 | - | 8.3 | - | 26.3 | - | 75.6 - | _ | 5.2 | | 5.2 | 11.2 | - | 11.5 | 16.1 | - | 17.4 |
| | | | | 0.0 | Bottom | 2.8 | 26.4 | 26.5 | 8.3 | 8.3 | 26.6 | 26.5 | 74.8 | 74.3 | 5.2 | 5.1 | 5.1 | 11.6 | 11.6 | 5 | 18.6 | 18.8 | |
| 19-Aug-16 | Fine | Moderate | 07:20 | | | 1.0 | 26.6 26.4 | 26.3 | 8.3 8.2 | 8.2 | 26.4 27.0 | 26.9 | 73.8 87.5 | 85.9 | 5.1 6.1 | | 0.1 | 11.5 5.3 | | <u> </u> | 18.9 3.6 | | |
| | | | | | Surface | 1.0 | 26.3 | ∠0.3 | 8.2 | 8.∠ | 26.9 | 20.9 | 84.2 | 85.9 | 5.9 | 6.0 | 6.0 | 5.2 | 5.3 | | 3.0 | 3.3 | |
| | | | | 3.8 | Middle | - | - | - | - | - | - | - | - | - | - | - | | - | - | 5.3 | - | - | 4.8 |
| | | | | | Bottom | 2.8 | 26.1 26.2 | 26.2 | 8.2 8.2 | 8.2 | 27.5 27.2 | 27.3 | 85.1 83.2 | 84.2 | 5.9 5.8 | 5.9 | 5.9 | 5.2 5.4 | 5.3 | | 5.7 6.7 | 6.2 | |

Remarks:

* DA: Depth-Averaged

** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at IS8 - Mid-FloodTide

| Date | Weather | Sea | Sampling | Water | Samp | ling | Temper | ature (°C) | | οH | Salini | ty (ppt) | DO Satu | ration (%) | Dissol | ved Oxygen | (mg/L) | Т | urbidity(NTI | J) | Susper | nded Solids | (mg/L) |
|-----------|-----------|-------------|----------|-----------|---------|------|--------------|------------|------------|---------|--------------|----------|----------------|------------|------------|------------|--------|--------------|--------------|------|--------------|-------------|--------|
| | Condition | Condition** | Time | Depth (m) | Depth | (m) | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | DA* | Value | Average | DA* | Value | Average | DA* |
| 22-Aug-16 | Sunny | Moderate | 09:32 | | Surface | 1.0 | 28.1 28.0 | 28.1 | 8.2 8.1 | 8.2 | 21.2 21.1 | 21.1 | 84.5 80.9 | 82.7 | 6.0 5.8 | 5.9 | 5.9 | 7.5 7.3 | 7.4 | | 5.3 4.6 | 5.0 | |
| | | | | 4.1 | Middle | - | - | - | - | - | - | - | - | - | - | - | 0.0 | - | - | 7.4 | - | - | 5.8 |
| | | | | | Bottom | 3.1 | 28.0 28.0 | 28.0 | 8.2 8.1 | 8.2 | 21.7 21.4 | 21.6 | 81.5 80.3 | 80.9 | 5.8 5.8 | 5.8 | 5.8 | 7.2 7.4 | 7.3 | | 6.7 6.5 | 6.6 | |
| 24-Aug-16 | Sunny | Moderate | 11:49 | | Surface | 1.0 | 28.6 28.7 | 28.7 | 8.2 8.2 | 8.2 | 22.5 22.5 | 22.5 | 77.7 77.9 | 77.8 | 5.3 5.3 | 5.3 | 5.3 | 5.8 5.7 | 5.8 | | 2.9 2.8 | 2.9 | |
| | | | | 4.0 | Middle | - | | - | | - | 1 1 | - | 1 1 | - | | - | 5.5 | - | - | 5.8 | - | 1 | 2.8 |
| | | | | | Bottom | 3.0 | 28.5 28.5 | 28.5 | 8.2 8.2 | 8.2 | 23.5 23.5 | 23.5 | 78.2 78.8 | 78.5 | 5.3 5.4 | 5.3 | 5.3 | 5.8 5.6 | 5.7 | | 2.3 2.9 | 2.6 | |
| 26-Aug-16 | Sunny | Moderate | 13:33 | | Surface | 1.0 | 29.6 29.6 | 29.6 | 8.6 8.6 | 8.6 | 21.8 21.6 | 21.7 | 128.0 126.9 | 127.5 | 8.7 8.5 | 8.6 | 8.6 | 10.5 10.5 | 10.5 | | 6.3 5.0 | 5.7 | |
| | | | | 3.9 | Middle | - | - | - | - | - | - | - | - | - | - | - | 0.0 | - | - | 10.5 | - | - | 5.8 |
| | | | | | Bottom | 2.9 | 29.5 29.6 | 29.6 | 8.5 8.6 | 8.6 | 23.3 23.0 | 23.2 | 125.5 126.2 | 125.9 | 8.5 8.5 | 8.5 | 8.5 | 10.4 10.6 | 10.5 | | 5.7 5.8 | 5.8 | |
| 29-Aug-16 | Sunny | Moderate | 17:32 | | Surface | 1.0 | 28.0 28.0 | 28.0 | 8.4 8.4 | 8.4 | 26.9 26.9 | 26.9 | 81.7 83.9 | 82.8 | 5.5 5.7 | 5.6 | 5.6 | 19.6 19.4 | 19.5 | | 12.7 12.1 | 12.4 | |
| | | | | 3.8 | Middle | - | | - | | - | | - | | - | | - | 3.0 | - | - | 19.5 | - | ı | 12.9 |
| | | | | | Bottom | 2.8 | 28.0 28.1 | 28.1 | 8.4 8.4 | 8.4 | 28.3 28.3 | 28.3 | 81.2 80.7 | 81.0 | 5.6 5.5 | 5.5 | 5.5 | 19.2 19.6 | 19.4 | | 13.5 13.1 | 13.3 | |
| 31-Aug-16 | Sunny | Moderate | 18:39 | | Surface | 1.0 | 28.4 28.3 | 28.4 | 8.4 8.4 | 8.4 | 27.6 27.8 | 27.7 | 75.5 75.7 | 75.6 | 5.0 5.1 | 5.0 | 5.0 | 18.4 18.7 | 18.6 | | 19.4 18.5 | 19.0 | |
| | | | | 3.8 | Middle | - | - | - | | - | | - | 1 1 | - | | - | 3.0 | - | - | 18.6 | - | - | 19.1 |
| | | | | | Bottom | 2.8 | 28.1 28.3 | 28.2 | 8.4 8.4 | 8.4 | 28.0 27.8 | 27.9 | 74.3 76.1 | 75.2 | 5.0 5.1 | 5.0 | 5.0 | 18.5 18.6 | 18.6 | | 18.8 19.4 | 19.1 | |

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

[^] As Tropical Cyclone Warning Signal No.3 or above was hoisted, water quality monitoring (except the monitoring locations named CSA, CS6, SR10B(N) and SR10A during Mid-Ebb Tide) was stopped according to the Contingency Plan for Impact Monitoring.

^{*} DA: Depth-Averaged

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at IS17 - Mid-EbbTide

| Date | Weather | Sea | Sampling | Water | Samp | ing | Tempera | ature (°C) | | Н | Salini | ty (ppt) | DO Satu | ration (%) | Dissol | ved Oxygen | (mg/L) | Т | urbidity(NT | J) | Suspe | nded Solids | (mg/L) |
|-------------|-----------|-------------|----------|--------------|---------|------|--------------|------------|------------|---------|--------------|----------|--------------|------------|-------------------|------------|--------|------------|-------------|-----|------------|-------------|----------|
| | Condition | Condition** | Time | Depth (m) | Depth | (m) | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | DA* | Value | Average | DA* | Value | Average | DA* |
| 1-Aug-16^ | Cloudy | Moderate | - | | Surface | - | - | - | - | - | - | - | - | - | - | - | | - | - | | - | - | |
| | | | | - | Middle | - | - | - | - | - | - | - | - | - | - | - | - | - | - | = | - | - | - |
| | | | | | Bottom | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | - | - | |
| 3-Aug-16 | Cloudy | Moderate | 13:05 | | Surface | 1.0 | 26.2 26.1 | 26.2 | 8.2 8.2 | 8.2 | 26.6 26.7 | 26.7 | 75.5 75.2 | 75.4 | 5.3 5.2 | 5.3 | | 6.6 6.6 | 6.6 | | 5.7 5.5 | 5.6 | |
| | | | | 10.7 | Middle | 5.4 | 25.9 25.9 | 25.9 | 8.2 | 8.2 | 27.7 27.9 | 27.8 | 73.6 74.7 | 74.2 | 5.2 5.1 5.2 | 5.1 | 5.2 | 6.8 | 6.8 | 6.7 | 6.0 5.9 | 6.0 | 5.9 |
| | | | | | Bottom | 9.7 | 25.5 25.7 | 25.6 | 8.2 8.2 | 8.2 | 29.5 29.5 | 29.5 | 72.7 73.3 | 73.0 | 5.1 | 5.1 | 5.1 | 6.8 | 6.8 | | 6.3 5.6 | 6.0 | |
| 5-Aug-16 | Sunny | Moderate | 14:19 | | Surface | 1.0 | 27.4 | 27.4 | 8.2 | 8.2 | 23.4 | 23.6 | 78.1 | 77.8 | 5.1 | 5.4 | | 5.9 | 6.1 | | 7.4 | 7.3 | |
| | | | | 10.0 | Middle | 5.0 | 27.3 26.0 | 26.3 | 8.2 8.1 | 8.2 | 23.7 | 25.7 | 77.5 76.5 | 74.6 | 5.4 | 5.2 | 5.3 | 6.2 | 6.1 | 6.1 | 7.2 | 7.6 | 7.6 |
| | | | | | Bottom | 9.0 | 26.6 25.5 | 25.4 | 8.2 8.1 | 8.1 | 25.4 28.4 | 28.5 | 72.7 75.1 | 73.7 | 5.0 5.2 | 5.1 | 5.1 | 6.1 6.1 | 6.2 | | 7.3 8.2 | 7.9 | 1 |
| 8-Aug-16 | Sunny | Moderate | 16:10 | <u> </u> | Surface | 1.0 | 25.3 28.9 | 29.0 | 8.1 8.0 | 8.0 | 28.6 19.6 | 19.5 | 72.3 87.9 | 87.7 | 5.0 6.1 | 6.1 | | 6.2 2.9 | 3.0 | | 7.6 5.0 | 5.3 | |
| | | | | 10.0 | Middle | 5.0 | 29.0 27.7 | 27.7 | 8.0 8.0 | 8.0 | 19.4 23.7 | 23.3 | 87.4 84.6 | 82.6 | 6.0 5.9 | 5.7 | 5.9 | 3.1 | 3.8 | 3.6 | 5.6 4.5 | 4.2 | 4.3 |
| | | | | | Bottom | 9.0 | 27.7 26.2 | 26.2 | 8.0 8.0 | 8.0 | 23.0 27.5 | 27.5 | 80.5 77.8 | 76.6 | 5.6 5.4 | 5.3 | 5.3 | 3.9 | 4.0 | | 3.8 2.8 | 3.5 | |
| 10-Aug-16 | Rainy | Moderate | 17:26 | | Surface | 1.0 | 26.1 28.0 | 28.0 | 8.0 8.3 | 8.3 | 27.5 20.7 | 20.5 | 75.3 76.6 | 76.7 | 5.2 5.3 | 5.4 | | 1.9 | 2.0 | | 1.2 | 1.3 | |
| | | | | 10.3 | Middle | 5.2 | 28.0 27.4 | 27.3 | 8.3 8.3 | 8.3 | 20.3 25.0 | 25.7 | 76.8 75.7 | 75.4 | 5.4 5.2 | 5.2 | 5.3 | 3.8 | 3.8 | 3.3 | 1.3 | 1.4 | 1.5 |
| | | | | 10.3 | | 9.3 | 27.2 25.5 | 25.5 | 8.3 8.2 | 8.2 | 26.4 30.6 | 30.7 | 75.1 71.8 | 71.7 | 5.2 4.9 | | 4.9 | 3.8 | 4.0 | 3.3 | 1.4 | 1.8 | 1.5 |
| 12-Aug-16 | Rainy | Moderate | 08:19 | 1 | Bottom | 1.0 | 25.5 27.6 | 27.6 | 8.2 8.3 | 8.3 | 30.8 21.1 | 20.9 | 71.6 87.9 | 89.4 | 4.9 6.2 | 4.9 6.2 | 4.9 | 4.1 3.3 | 3.3 | | 1.7 | 1.0 | |
| Ü | , | | | 40.0 | Surface | | 27.6 25.3 | - | 8.3 8.2 | | 20.7 28.6 | | 90.8 84.7 | | 6.3 5.8 | | 6.1 | 3.2 5.3 | | 4.0 | 1.0 | | 4.0 |
| | | | | 10.6 | Middle | 5.3 | 25.3 25.3 | 25.3 | 8.2 8.2 | 8.2 | 28.3 31.4 | 28.5 | 87.4 82.3 | 86.1 | 6.1 5.8 | 6.0 | | 5.1 5.2 | 5.2 | 4.6 | 1.2 2.9 | 1.2 | 1.6 |
| 15-Aug-16 | Cloudy | Moderate | 11:16 | <u> </u> | Bottom | 9.6 | 25.2 27.1 | 25.2 | 8.2 8.3 | 8.2 | 31.5 22.8 | 31.4 | 79.0 81.2 | 80.7 | 5.5 5.5 | 5.6 | 5.6 | 5.2 4.4 | 5.2 | | 2.3 4.8 | 2.6 | <u> </u> |
| 10 / lug 10 | Oloddy | Woderate | 11.10 | | Surface | 1.0 | 27.0 25.5 | 27.1 | 8.3 8.3 | 8.3 | 22.8 29.1 | 22.8 | 84.8 77.8 | 83.0 | 5.7 5.2 | 5.6 | 5.5 | 4.2 | 4.3 | | 4.6 | 4.7 | |
| | | | | 9.6 | Middle | 4.8 | 25.5 25.4 | 25.5 | 8.3 8.2 | 8.3 | 29.5 | 29.3 | 81.2 75.9 | 79.5 | 5.5 5.1 | 5.4 | | 6.2 | 6.2 | 5.6 | 4.9 | 5.0 | 4.8 |
| 17 Aug 16 | Rainy | Moderate | 12:20 | | Bottom | 8.6 | 25.2 | 25.3 | 8.3 8.3 | 8.3 | 31.0 25.8 | 30.8 | 78.5 83.9 | 77.2 | 5.3 5.8 | 5.2 | 5.2 | 6.3 | 6.3 | | 4.7 | 4.8 | <u> </u> |
| 17-Aug-16 | Rally | Moderate | 12.20 | | Surface | 1.0 | 26.5 | 26.6 | 8.3 | 8.3 | 26.3 | 26.0 | 84.3 | 84.1 | 5.9 | 5.8 | 5.7 | 4.3 | 4.3 | | 4.2 | 4.8 | |
| | | | | 11.3 | Middle | 5.7 | 26.2 26.5 | 26.3 | 8.3 8.3 | 8.3 | 27.5 26.4 | 26.9 | 78.7 79.3 | 79.0 | 5.4 5.5 | 5.5 | | 4.4 | 4.5 | 4.5 | 4.0 4.5 | 4.3 | 4.7 |
| | | | | | Bottom | 10.3 | 26.1 26.4 | 26.2 | 8.3 8.3 | 8.3 | 28.0 26.9 | 27.4 | 75.0 75.0 | 75.0 | 5.2 5.2 | 5.2 | 5.2 | 4.7 4.7 | 4.7 | | 4.6 5.2 | 4.9 | <u> </u> |
| 19-Aug-16 | Fine | Moderate | 13:28 | | Surface | 1.0 | 26.6 26.6 | 26.6 | 8.2 8.2 | 8.2 | 27.3 27.3 | 27.3 | 79.4 75.0 | 77.2 | 5.5 5.2 | 5.3 | 5.3 | 4.7 | 4.8 | | 5.1 6.9 | 6.0 | 1 |
| | | | | 10.0 | Middle | 5.0 | 26.3 26.3 | 26.3 | 8.2 8.2 | 8.2 | 27.6 27.7 | 27.7 | 75.3 74.8 | 75.1 | 5.2 5.2 | 5.2 | | 4.8 5.0 | 4.9 | 4.9 | 5.2 5.8 | 5.5 | 5.7 |
| | | | | | Bottom | 9.0 | 26.1 26.3 | 26.2 | 8.2 8.2 | 8.2 | 28.1 27.8 | 27.9 | 73.7 72.6 | 73.2 | 5.1 5.0 | 5.1 | 5.1 | 4.8 4.9 | 4.9 | | 5.7 5.6 | 5.7 | |

Remarks:

* DA: Depth-Averaged

** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at IS17 - Mid-EbbTide

| Date | Weather | Sea | Sampling | Water | Samp | ling | Tempera | ature (°C) | | ρΗ | Salini | ty (ppt) | DO Satu | ration (%) | Dissol | ved Oxygen | (mg/L) | 1 | urbidity(NT | J) | Susper | nded Solids | (mg/L) |
|-----------|-----------|-------------|----------|-----------|---------|------|--------------|------------|------------|---------|--------------|----------|--------------|------------|------------|------------|---------|--------------|-------------|------|------------|-------------|----------|
| | Condition | Condition** | Time | Depth (m) | Depth | (m) | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | DA* | Value | Average | DA* | Value | Average | DA* |
| 22-Aug-16 | Sunny | Moderate | 15:04 | | Surface | 1.0 | 28.9 28.8 | 28.8 | 8.2 8.2 | 8.2 | 21.5 21.6 | 21.5 | 88.2 82.2 | 85.2 | 6.2 5.8 | 6.0 | 5.9 | 4.6 4.2 | 4.4 | | 5.4 4.7 | 5.1 | |
| | | | | 10.2 | Middle | 5.1 | 27.9 27.8 | 27.8 | 8.1 8.2 | 8.2 | 23.2 23.5 | 23.4 | 79.9 84.6 | 82.3 | 5.7 6.0 | 5.8 | 5.5 | 4.5 4.5 | 4.5 | 4.5 | 5.7 6.1 | 5.9 | 5.4 |
| | | | | | Bottom | 9.2 | 27.2 27.4 | 27.3 | 8.1 8.1 | 8.1 | 26.2 26.1 | 26.1 | 82.6 77.4 | 80.0 | 5.9 5.5 | 5.7 | 5.7 | 4.5 4.5 | 4.5 | | 5.3 5.2 | 5.3 | |
| 24-Aug-16 | Sunny | Moderate | 16:58 | | Surface | 1.0 | 29.2 28.9 | 29.1 | 8.3 8.3 | 8.3 | 20.5 19.8 | 20.2 | 81.4 83.3 | 82.4 | 5.7 5.8 | 5.7 | 5.7 | 6.5 6.8 | 6.7 | | 4.2 3.9 | 4.1 | |
| | | | | 10.1 | Middle | 5.1 | 27.9 27.9 | 27.9 | 8.3 8.3 | 8.3 | 24.9 25.2 | 25.1 | 82.3 80.6 | 81.5 | 5.8 5.6 | 5.7 | · · · · | 6.8 6.7 | 6.8 | 6.8 | 3.9 4.3 | 4.1 | 4.4 |
| | | | | | Bottom | 9.1 | 27.5 27.4 | 27.5 | 8.3 8.3 | 8.3 | 27.2 27.3 | 27.3 | 77.1 78.9 | 78.0 | 5.4 5.5 | 5.4 | 5.4 | 6.8 6.8 | 6.8 | | 5.3 4.9 | 5.1 | |
| 26-Aug-16 | Sunny | Moderate | 07:38 | | Surface | 1.0 | 29.1 28.9 | 29.0 | 8.4 8.3 | 8.3 | 17.4 19.3 | 18.3 | 83.4 82.1 | 82.8 | 5.8 5.7 | 5.8 | 5.7 | 4.2 4.2 | 4.2 | | 4.9 5.2 | 5.1 | |
| | | | | 10.3 | Middle | 5.2 | 28.4 28.1 | 28.3 | 8.3 8.3 | 8.3 | 24.5 24.6 | 24.6 | 79.3 82.0 | 80.7 | 5.4 5.6 | 5.5 | 5.7 | 4.4 4.2 | 4.3 | 4.3 | 4.0 4.0 | 4.0 | 4.6 |
| | | | | | Bottom | 9.3 | 28.0 27.9 | 28.0 | 8.3 8.2 | 8.2 | 26.2 27.8 | 27.0 | 79.8 78.0 | 78.9 | 5.5 5.3 | 5.4 | 5.4 | 4.4 4.5 | 4.5 | | 4.5 5.0 | 4.8 | |
| 29-Aug-16 | Sunny | Moderate | 11:11 | | Surface | 1.0 | 27.5 27.6 | 27.6 | 8.3 8.3 | 8.3 | 27.5 27.3 | 27.4 | 78.1 78.8 | 78.5 | 5.3 5.4 | 5.3 | 5.3 | 5.9 6.0 | 6.0 | | 7.1 6.4 | 6.8 | |
| | | | | 9.6 | Middle | 4.8 | 27.3 27.3 | 27.3 | 8.3 8.3 | 8.3 | 28.7 28.7 | 28.7 | 75.5 78.0 | 76.8 | 5.2 5.4 | 5.3 | 3.3 | 7.7 7.5 | 7.6 | 7.1 | 7.7 6.3 | 7.0 | 7.4 |
| | | | | | Bottom | 8.6 | 26.9 27.4 | 27.2 | 8.3 8.3 | 8.3 | 31.2 30.5 | 30.9 | 74.0 74.7 | 74.4 | 5.1 5.1 | 5.1 | 5.1 | 7.6 7.5 | 7.6 | | 8.6 7.9 | 8.3 | |
| 31-Aug-16 | Sunny | Moderate | 12:37 | | Surface | 1.0 | 28.0 27.8 | 27.9 | 8.4 8.4 | 8.4 | 28.1 28.3 | 28.2 | 82.8 89.4 | 86.1 | 5.5 6.0 | 5.7 | 5.6 | 10.3 10.2 | 10.3 | | 7.2 6.8 | 7.0 | |
| | | | | 10.1 | Middle | 5.1 | 27.3 27.3 | 27.3 | 8.4 8.4 | 8.4 | 29.9 30.0 | 30.0 | 84.5 82.1 | 83.3 | 5.6 5.5 | 5.5 | 5.0 | 10.2 10.4 | 10.3 | 10.3 | 6.8 6.0 | 6.4 | 6.9 |
| | | | | | Bottom | 9.1 | 27.2 27.3 | 27.3 | 8.4 8.4 | 8.4 | 30.1 30.3 | 30.2 | 83.8 80.3 | 82.1 | 5.6 5.3 | 5.5 | 5.5 | 10.2 10.5 | 10.4 | | 7.5 7.0 | 7.3 | <u> </u> |

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

[^] As Tropical Cyclone Warning Signal No.3 or above was hoisted, water quality monitoring (except the monitoring locations named CSA, CS6, SR10B(N) and SR10A during Mid-Ebb Tide) was stopped according to the Contingency Plan for Impact Monitoring.

^{*} DA: Depth-Averaged

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at IS17 - Mid-FloodTide

| Date | Weather | Sea | Sampling | Water | Samp | ling | Tempera | ature (°C) | F | Н | Salini | ty (ppt) | DO Satu | ration (%) | Dissol | ed Oxygen | (mg/L) | Т | urbidity(NT | J) | Suspe | nded Solids | (mg/L) |
|-----------|-----------|-------------|----------|-----------|---------|------|----------------------|------------|-------------------|---------|----------------------|----------|----------------------|------------|-------------------|-----------|--------|-------------------|-------------|-----|-------------------|-------------|--------|
| | Condition | Condition** | Time | Depth (m) | Depth | (m) | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | DA* | Value | Average | DA* | Value | Average | DA* |
| 1-Aug-16^ | Cloudy | Moderate | - | | Surface | - | - | - | - | - | - | - | - | - | - | - | | - | - | | - | - | |
| | | | | - | Middle | - | - | - | - | - | - | - | - | - | - | - | - | - | - | = | - | - | |
| | | | | | Bottom | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | - | - | 1 |
| 3-Aug-16 | Cloudy | Moderate | 06:28 | | Surface | 1.0 | 26.1 26.0 | 26.1 | 8.3 8.3 | 8.3 | 28.4 28.5 | 28.5 | 73.3 76.5 | 74.9 | 5.1 5.3 | 5.2 | | 7.3 7.2 | 7.3 | | 7.1 6.6 | 6.9 | |
| | | | | 10.8 | Middle | 5.4 | 25.8 25.7 | 25.8 | 8.3 8.3 | 8.3 | 29.1 29.2 | 29.1 | 74.5 73.2 | 73.9 | 5.1 5.0 | 5.1 | 5.2 | 8.8 8.6 | 8.7 | 8.3 | 6.8 | 6.7 | 7.1 |
| | | | | | Bottom | 9.8 | 25.1 25.6 | 25.4 | 8.3 8.3 | 8.3 | 32.0 31.8 | 31.9 | 73.4 71.4 | 72.4 | 5.1 4.9 | 5.0 | 5.0 | 8.8 8.7 | 8.8 | | 8.2 7.4 | 7.8 | 1 |
| 5-Aug-16 | Sunny | Moderate | 08:00 | | Surface | 1.0 | 27.0 27.2 | 27.1 | 8.2 8.2 | 8.2 | 21.8 21.6 | 21.7 | 75.7 76.1 | 75.9 | 5.3 5.3 | 5.3 | | 8.1 8.8 | 8.5 | | 3.5 4.2 | 3.9 | |
| | | | | 10.6 | Middle | 5.3 | 26.6 26.4 | 26.5 | 8.2 8.2 | 8.2 | 23.2 24.6 | 23.9 | 71.9 72.3 | 72.1 | 5.1 5.1 | 5.1 | 5.2 | 8.8 8.6 | 8.7 | 8.6 | 4.2 4.8 | 4.5 | 4.8 |
| | | | | | Bottom | 9.6 | 25.3 25.2 | 25.2 | 8.2 | 8.2 | 29.1 | 29.0 | 69.2 | 70.0 | 4.8 | 4.9 | 4.9 | 8.6 | 8.6 | | 5.6 | 5.9 | 1 |
| 8-Aug-16 | Sunny | Moderate | 09:42 | | Surface | 1.0 | 28.3 | 28.3 | 8.2 8.0 | 8.1 | 28.9 19.7 | 19.9 | 70.7 84.1 84.1 | 84.1 | 5.0 5.8 5.8 | 5.8 | | 2.9 | 2.9 | | 6.1 2.5 4.3 | 3.4 | |
| | | | | 10.5 | Middle | 5.3 | 28.4 27.7 27.6 | 27.7 | 8.1 8.0 8.0 | 8.0 | 20.2 22.0 22.2 | 22.1 | 82.4 82.5 | 82.5 | 5.8 5.7 5.7 | 5.7 | 5.8 | 2.9 3.9 3.9 | 3.9 | 3.6 | 3.2 2.9 | 3.1 | 3.6 |
| | | | | | Bottom | 9.5 | 26.2 26.3 | 26.3 | 8.0 8.0 | 8.0 | 26.4 27.5 | 27.0 | 79.2 78.6 | 78.9 | 5.7 5.5 5.5 | 5.5 | 5.5 | 3.9 3.8 | 3.9 | | 3.9 4.7 | 4.3 | 1 |
| 10-Aug-16 | Rainy | Moderate | 12:01 | | Surface | 1.0 | 28.1 28.1 | 28.1 | 8.3 8.3 | 8.3 | 20.4 20.2 | 20.3 | 85.9 80.5 | 83.2 | 6.1 5.7 | 5.9 | | 4.4 4.3 | 4.4 | | 1.0 | 1.1 | |
| | | | | 10.5 | Middle | 5.3 | 26.5 26.5 | 26.5 | 8.2 8.2 | 8.2 | 24.8 24.8 | 24.8 | 82.8 77.5 | 80.2 | 5.8 5.4 | 5.6 | 5.8 | 4.4 4.6 | 4.5 | 4.5 | 1.4 | 1.4 | 1.7 |
| | | | | | Bottom | 9.5 | 25.9 25.8 | 25.9 | 8.2 8.2 | 8.2 | 29.4 29.5 | 29.4 | 79.9 76.2 | 78.1 | 5.7 5.4 | 5.5 | 5.5 | 4.5 4.5 | 4.5 | | 3.0 | 2.5 | 1 |
| 12-Aug-16 | Fine | Moderate | 14:52 | | Surface | 1.0 | 27.6 27.5 | 27.5 | 8.3 8.3 | 8.3 | 21.0 21.5 | 21.2 | 80.6 82.1 | 81.4 | 5.6 5.7 | 5.7 | | 1.9 | 1.9 | | 2.7 2.9 | 2.8 | |
| | | | | 10.8 | Middle | 5.4 | 26.0 26.0 | 26.0 | 8.2 8.2 | 8.2 | 27.1 27.1 | 27.1 | 79.9 79.1 | 79.5 | 5.7 5.5 5.5 | 5.5 | 5.6 | 2.2 | 2.2 | 2.1 | 2.5 | 2.3 | 2.7 |
| | | | | | Bottom | 9.8 | 25.7 25.6 | 25.7 | 8.2 8.2 | 8.2 | 29.9 | 30.1 | 74.1 74.6 | 74.4 | 5.1 5.2 | 5.2 | 5.2 | 2.2 | 2.2 | | 3.0 | 3.0 | 1 |
| 15-Aug-16 | Cloudy | Moderate | 18:00 | | Surface | 1.0 | 26.6 26.6 | 26.6 | 8.3 8.3 | 8.3 | 25.3 25.2 | 25.3 | 77.9 79.7 | 78.8 | 5.4 5.4 | 5.4 | | 6.5 6.4 | 6.5 | | 8.4 8.1 | 8.3 | |
| | | | | 10.3 | Middle | 5.2 | 26.2 26.4 | 26.3 | 8.3 8.3 | 8.3 | 28.7 27.5 | 28.1 | 74.1 78.7 | 76.4 | 5.4 5.1 5.4 | 5.2 | 5.3 | 6.5 6.6 | 6.6 | 6.6 | 7.2 | 7.5 | 8.1 |
| | | | | | Bottom | 9.3 | 25.5 25.2 | 25.4 | 8.3 8.3 | 8.3 | 30.1 30.5 | 30.3 | 74.5 70.6 | 72.6 | 5.1 4.8 | 4.9 | 4.9 | 6.6 6.5 | 6.6 | | 8.2 8.5 | 8.4 | 1 |
| 17-Aug-16 | Rainy | Moderate | 19:23 | | Surface | 1.0 | 25.9 26.2 | 26.1 | 8.3 8.3 | 8.3 | 27.7 26.7 | 27.2 | 76.2 75.8 | 76.0 | 5.3 5.2 | 5.2 | | 4.2 4.1 | 4.2 | | 5.0 4.5 | 4.8 | |
| | | | | 11.3 | Middle | 5.7 | 25.8 26.0 | 25.9 | 8.3 8.3 | 8.3 | 28.2 27.6 | 27.9 | 75.6 75.1 74.9 | 75.0 | 5.2 5.2 5.2 | 5.2 | 5.2 | 4.4 | 4.4 | 4.4 | 5.6 6.3 | 6.0 | 5.6 |
| | | | | | Bottom | 10.3 | 26.0 25.8 | 25.9 | 8.3 8.3 | 8.3 | 27.6 28.2 | 27.9 | 74.9 74.5 74.4 | 74.5 | 5.2 5.1 5.1 | 5.1 | 5.1 | 4.6 4.5 | 4.6 | | 6.6 5.4 | 6.0 | 1 |
| 19-Aug-16 | Fine | Moderate | 07:06 | | Surface | 1.0 | 26.3 26.1 | 26.2 | 8.2 8.2 | 8.2 | 27.0 27.2 | 27.1 | 81.3 81.2 | 81.3 | 5.7 5.6 | 5.7 | | 4.7 4.8 | 4.8 | | 4.6 4.7 | 4.7 | |
| | | | | 10.6 | Middle | 5.3 | 26.1 25.9 | 26.0 | 8.2 8.2 | 8.2 | 27.5 28.5 | 28.0 | 79.8 78.5 | 79.2 | 5.6 5.5 | 5.5 | 5.6 | 4.8 4.6 | 4.7 | 4.8 | 3.6 4.5 | 4.1 | 5.0 |
| | | | | | Bottom | 9.6 | 25.7 26.0 | 25.8 | 8.2 8.2 | 8.2 | 29.4 29.1 | 29.2 | 78.9 78.0 | 78.5 | 5.5 5.4 | 5.5 | 5.5 | 4.8 | 4.8 | | 6.4 | 6.1 | 1 |

Remarks:

* DA: Depth-Averaged

** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at IS17 - Mid-FloodTide

| Date | Weather | Sea | Sampling | Water | Samp | ling | Tempera | ature (°C) | | ρΗ | Salini | ty (ppt) | DO Satu | ration (%) | Dissol | ed Oxygen | (mg/L) | Т | urbidity(NT | J) | Susper | nded Solids | s (mg/L) |
|-----------|-----------|-------------|----------|-----------|---------|------|--------------|------------|------------|---------|--------------|----------|--------------|------------|------------|-----------|-----------------|--------------|-------------|------|--------------|-------------|----------|
| | Condition | Condition** | Time | Depth (m) | Depth | (m) | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | DA* | Value | Average | DA* | Value | Average | DA* |
| 22-Aug-16 | Sunny | Moderate | 09:17 | | Surface | 1.0 | 28.0 27.9 | 28.0 | 8.2 8.2 | 8.2 | 21.1 21.6 | 21.3 | 76.4 76.3 | 76.4 | 5.5 5.5 | 5.5 | 5.5 | 6.3 6.5 | 6.4 | | 4.2 4.2 | 4.2 | |
| | | | | 10.5 | Middle | 5.3 | 27.5 27.6 | 27.6 | 8.2 8.2 | 8.2 | 23.2 23.5 | 23.4 | 75.2 76.1 | 75.7 | 5.4 5.4 | 5.4 | 0.0 | 6.4 6.2 | 6.3 | 6.4 | 5.6 4.3 | 5.0 | 5.0 |
| | | | | | Bottom | 9.5 | 27.2 27.4 | 27.3 | 8.2 8.2 | 8.2 | 26.3 26.3 | 26.3 | 75.5 74.9 | 75.2 | 5.4 5.3 | 5.4 | 5.4 | 6.2 6.5 | 6.4 | | 5.5 5.9 | 5.7 | |
| 24-Aug-16 | Sunny | Moderate | 11:34 | | Surface | 1.0 | 28.6 28.5 | 28.6 | 8.3 8.3 | 8.3 | 22.2 22.3 | 22.2 | 84.4 80.5 | 82.5 | 5.8 5.6 | 5.7 | 5.7 | 7.5 7.0 | 7.3 | | 1.5 1.3 | 1.4 | |
| | | | | 10.4 | Middle | 5.2 | 27.8 27.9 | 27.9 | 8.2 8.2 | 8.2 | 26.2 26.1 | 26.2 | 79.3 81.2 | 80.3 | 5.6 5.7 | 5.6 | 0.7 | 7.4 7.1 | 7.3 | 7.3 | 2.3 2.3 | 2.3 | 2.2 |
| | | | | | Bottom | 9.4 | 27.7 28.0 | 27.8 | 8.2 8.2 | 8.2 | 27.6 27.5 | 27.6 | 79.9 78.0 | 79.0 | 5.5 5.4 | 5.5 | 5.5 | 7.2 7.5 | 7.4 | | 2.6 3.0 | 2.8 | |
| 26-Aug-16 | Sunny | Moderate | 13:47 | | Surface | 1.0 | 29.1 29.1 | 29.1 | 8.5 8.4 | 8.4 | 20.6 20.8 | 20.7 | 90.9 91.6 | 91.3 | 6.3 6.3 | 6.3 | 5.9 | 6.0 5.9 | 6.0 | | 3.8 4.3 | 4.1 | |
| | | | | 10.6 | Middle | 5.3 | 28.7 28.5 | 28.6 | 8.4 8.4 | 8.4 | 23.2 23.4 | 23.3 | 81.3 81.6 | 81.5 | 5.6 5.5 | 5.5 | 5.5 | 6.2 6.2 | 6.2 | 6.2 | 3.9 4.0 | 4.0 | 4.5 |
| | | | | | Bottom | 9.6 | 27.7 27.7 | 27.7 | 8.3 8.4 | 8.4 | 27.9 27.8 | 27.9 | 77.0 79.9 | 78.5 | 5.2 5.5 | 5.3 | 5.3 | 6.4 6.1 | 6.3 | | 4.7 6.2 | 5.5 | |
| 29-Aug-16 | Sunny | Moderate | 17:46 | | Surface | 1.0 | 28.0 28.0 | 28.0 | 8.4 8.4 | 8.4 | 26.3 26.7 | 26.5 | 82.8 79.8 | 81.3 | 5.6 5.4 | 5.5 | 5.4 | 8.2 8.5 | 8.4 | | 9.2 9.9 | 9.6 | |
| | | | | 10.3 | Middle | 5.2 | 27.0 27.1 | 27.0 | 8.4 8.4 | 8.4 | 30.7 30.7 | 30.7 | 79.0 77.8 | 78.4 | 5.3 5.2 | 5.3 | 5.4 | 10.2 10.4 | 10.3 | 9.7 | 10.8 11.2 | 11.0 | 10.7 |
| | | | | | Bottom | 9.3 | 27.3 27.0 | 27.2 | 8.4 8.4 | 8.4 | 30.8 30.9 | 30.8 | 71.0 73.8 | 72.4 | 4.8 5.0 | 4.9 | 4.9 | 10.5 10.5 | 10.5 | | 11.5 11.3 | 11.4 | |
| 31-Aug-16 | Sunny | Moderate | 18:51 | | Surface | 1.0 | 27.8 27.9 | 27.8 | 8.3 8.4 | 8.4 | 27.2 27.1 | 27.2 | 80.7 80.7 | 80.7 | 5.4 5.4 | 5.4 | 5.4 | 11.4 11.4 | 11.4 | _ | 8.3 7.2 | 7.8 | |
| | | | | 10.4 | Middle | 5.2 | 27.7 27.6 | 27.6 | 8.3 8.3 | 8.3 | 28.1 28.3 | 28.2 | 80.1 80.4 | 80.3 | 5.4 5.4 | 5.4 | J. 4 | 11.5 11.5 | 11.5 | 11.4 | 7.6 8.8 | 8.2 | 8.0 |
| | | | | | Bottom | 9.4 | 27.7 27.7 | 27.7 | 8.3 8.3 | 8.3 | 28.3 28.3 | 28.3 | 80.1 80.1 | 80.1 | 5.4 5.4 | 5.4 | 5.4 | 11.2 11.6 | 11.4 | | 8.2 8.0 | 8.1 | |

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

[^] As Tropical Cyclone Warning Signal No.3 or above was hoisted, water quality monitoring (except the monitoring locations named CSA, CS6, SR10B(N) and SR10A during Mid-Ebb Tide) was stopped according to the Contingency Plan for Impact Monitoring.

^{*} DA: Depth-Averaged

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at SR3 - Mid-EbbTide

| Date | Weather | Sea | Sampling | Water | Samp | ing | Tempera | ature (°C) | F | Н | Salini | ty (ppt) | DO Satu | ration (%) | Dissol | ved Oxygen | (mg/L) | Т | urbidity(NT | U) | Suspe | ended Solids | s (mg/L) |
|-----------|-----------|-------------|----------|-----------|---------|-----|--------------|------------|------------|---------|--------------|----------|----------------|------------|------------|------------|--------|------------|-------------|-----|--------------|--------------|----------|
| | Condition | Condition** | Time | Depth (m) | Depth | (m) | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | DA* | Value | Average | DA* | Value | Average | DA* |
| 1-Aug-16^ | Cloudy | Moderate | - | | Surface | - | - | - | - | - | - | - | - | - | - | - | | - | - | | - | - | |
| | | | | - | Middle | - | | - | - | - | - | - | - | - | - | - | - | - | - | = | - | - | <u>-</u> |
| | | | | | Bottom | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | - | - | |
| 3-Aug-16 | Cloudy | Moderate | - | | Surface | - | - | - | - | - | - | - | - | - | - | - | | - | - | | - | - | |
| | | | | 1.6 | Middle | 0.8 | 26.2 26.2 | 26.2 | 7.9 7.8 | 7.9 | 26.1 26.2 | 26.2 | 83.6 86.2 | 84.9 | 5.8 6.0 | 5.9 | 5.9 | 7.6 7.9 | 7.8 | 7.8 | 12.6 11.2 | 11.9 | 11.9 |
| | | | | | Bottom | - | - | - | - | - | - | - | | - | - | - | - | - | - | | | - | |
| 5-Aug-16 | Sunny | Moderate | - | | Surface | - | - | - | - | - | - | - | - | - | - | - | | - | - | | - | - | |
| | | | | 1.2 | Middle | 0.6 | 27.2 27.3 | 27.3 | 8.6 8.6 | 8.6 | 21.3 21.1 | 21.2 | 79.1 80.2 | 79.7 | 5.5 5.6 | 5.6 | 5.6 | 7.4 7.6 | 7.5 | 7.5 | 8.3 8.4 | 8.4 | 8.4 |
| | | | | | Bottom | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | - | - | |
| 8-Aug-16 | Sunny | Moderate | - | | Surface | - | - | - | - | - | - | - | - | - | - | - | | - | - | | - | - | |
| | | | | 1.4 | Middle | 0.7 | 29.8 29.8 | 29.8 | 8.0 8.0 | 8.0 | 16.4 16.3 | 16.3 | 127.4 121.4 | 124.4 | 8.8 8.4 | 8.6 | 8.6 | 4.9 4.9 | 4.9 | 4.9 | 8.7 8.8 | 8.8 | 8.8 |
| | | | | | Bottom | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | - | - | |
| 10-Aug-16 | Rainy | Moderate | - | | Surface | - | - | - | - | - | - | - | - | - | - | - | | - | - | | - | - | |
| | | | | 1.6 | Middle | 0.8 | 28.2 28.2 | 28.2 | 8.6 8.6 | 8.6 | 19.1 19.4 | 19.3 | 101.2 100.7 | 101.0 | 7.1 7.1 | 7.1 | 7.1 | 3.6 3.5 | 3.6 | 3.6 | 4.0 | 3.7 | 3.7 |
| | | | | | Bottom | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | - | - | |
| 12-Aug-16 | Rainy | Moderate | - | | Surface | - | - | - | - | - | - | - | - | - | - | - | | - | - | | - | - | |
| | | | | 1.6 | Middle | 0.8 | 27.2 26.5 | 26.9 | 8.2 8.2 | 8.2 | 20.7 | 21.0 | 77.7 77.1 | 77.4 | 5.5 5.4 | 5.4 | 5.4 | 2.2 | 2.2 | 2.2 | 2.5 3.7 | 3.1 | 3.1 |
| | | | | | Bottom | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | - | - | |
| 15-Aug-16 | Cloudy | Moderate | - | | Surface | - | - | - | - | - | - | - | - | - | - | - | | - | - | | - | - | |
| | | | | 1.4 | Middle | 0.7 | 27.7 27.7 | 27.7 | 8.3 8.3 | 8.3 | 21.7 21.6 | 21.7 | 90.0 92.8 | 91.4 | 6.3 6.5 | 6.4 | 6.4 | 3.8 3.8 | 3.8 | 3.8 | 5.4 6.1 | 5.8 | 5.8 |
| | | | | | Bottom | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | - | - | |
| 17-Aug-16 | Rainy | Moderate | - | | Surface | - | - | - | - | - | - | - | - | - | - | - | | - | - | | - | - | |
| | | | | 1.4 | Middle | 0.7 | 26.8 26.8 | 26.8 | 8.4 8.4 | 8.4 | 25.2 25.2 | 25.2 | 76.7 76.6 | 76.7 | 5.3 5.3 | 5.3 | 5.3 | 5.5 5.5 | 5.5 | 5.5 | 10.2 | 10.1 | 10.1 |
| | | | | | Bottom | - | | - | - | - | - | - | | - | - | - | - | - | - | | - | - | |
| 19-Aug-16 | Fine | Moderate | - | | Surface | - | - | - | - | - | - | - | - | - | - | - | F.C. | - | - | | - | - | |
| | | | | 1.6 | Middle | 0.8 | 26.5 26.5 | 26.5 | 8.4 8.4 | 8.4 | 27.1 27.1 | 27.1 | 79.5 81.2 | 80.4 | 5.5 5.6 | 5.6 | 5.6 | 7.8 7.8 | 7.8 | 7.8 | 9.1 8.0 | 8.6 | 8.6 |
| | | | | | Bottom | - | | | | - | - | - | | - | | | | - | - | | - | - | |

Remarks:

* DA: Depth-Averaged

** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at SR3 - Mid-EbbTide

| Date | Weather | Sea | Sampling | Water | Sampl | ling | Tempera | ature (°C) | 1 | Н | Salini | ty (ppt) | DO Satu | ration (%) | Dissol | ed Oxygen | (mg/L) | Т | urbidity(NTl | J) | Suspe | nded Solids | s (mg/L) |
|-----------|-----------|-------------|----------|-----------|---------|------|--------------|------------|------------|---------|--------------|----------|--------------|------------|------------|-----------|--------|--------------|--------------|------|--------------|-------------|----------|
| | Condition | Condition** | Time | Depth (m) | Depth | (m) | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | DA* | Value | Average | DA* | Value | Average | DA* |
| 22-Aug-16 | Sunny | Moderate | - | | Surface | - | - | - | - | - | - | - | - | - | - | - | 5.4 | - | - | | - | - | |
| | | | | 1.6 | Middle | 0.8 | 28.2 28.2 | 28.2 | 8.7 8.6 | 8.7 | 19.5 19.6 | 19.6 | 78.3 76.3 | 77.3 | 5.5 5.3 | 5.4 | 3.4 | 11.2 11.1 | 11.2 | 11.2 | 16.2 17.6 | 16.9 | 16.9 |
| | | | | | Bottom | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | - | - | |
| 24-Aug-16 | Sunny | Moderate | - | | Surface | - | - | - | - | - | | - | - | - | - | - | 6.3 | - | - | | - | - | |
| | | | | 1.4 | Middle | 0.7 | 29.3 29.3 | 29.3 | 8.6 8.5 | 8.6 | 19.8 20.0 | 19.9 | 92.3 91.9 | 92.1 | 6.3 6.3 | 6.3 | 0.5 | 4.5 4.4 | 4.5 | 4.5 | 3.9 4.0 | 4.0 | 4.0 |
| | | | | | Bottom | - | - | - | - | - | | - | - | - | | - | - | - | - | | - | - | |
| 26-Aug-16 | Sunny | Moderate | - | | Surface | - | - | - | - | - | - | - | - | - | - | - | 6.5 | - | - | | - | - | |
| | | | | 1.4 | Middle | 0.7 | 29.4 29.4 | 29.4 | 8.4 8.4 | 8.4 | 22.4 22.4 | 22.4 | 95.3 97.4 | 96.4 | 6.4 6.6 | 6.5 | 6.5 | 4.8 4.8 | 4.8 | 4.8 | 8.0 9.1 | 8.6 | 8.6 |
| | | | | | Bottom | - | - | - | - | - | | - | - | - | | - | - | - | - | | - | - | |
| 29-Aug-16 | Sunny | Moderate | - | | Surface | - | - | - | - | - | - | - | - | - | - | - | 5.2 | - | - | | - | - | |
| | | | | 1.4 | Middle | 0.7 | 27.9 28.2 | 28.1 | 8.4 8.4 | 8.4 | 25.1 24.6 | 24.9 | 74.9 77.7 | 76.3 | 5.1 5.3 | 5.2 | 5.2 | 4.3 4.4 | 4.4 | 4.4 | 6.7 5.7 | 6.2 | 6.2 |
| | | | | | Bottom | - | - | - | - | - | | - | - | - | | - | - | - | - | | - | - | |
| 31-Aug-16 | Sunny | Moderate | - | | Surface | - | - | - | - | - | - | - | - | - | - | - | 5.2 | - | - | | - | - | |
| | | | | 1.4 | Middle | 0.7 | 27.9 28.0 | 28.0 | 8.4 8.4 | 8.4 | 29.5 29.5 | 29.5 | 77.5 77.7 | 77.6 | 5.2 5.2 | 5.2 | ე.∠ | 10.5 10.8 | 10.7 | 10.7 | 17.0 16.7 | 16.9 | 16.9 |
| | | | | | Bottom | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | - | - | |

Remarks

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

CS4 and CS(Mf)3 are considered as upstream control stations of mid-ebb tide. The averaged turbidity and suspended solid values of these stations will be used for determination of Action and Limit Levels.

^As Tropical Cyclone Warning Signal No.3 or above was hoisted, water quality monitoring (except the monitoring locations named CSA, CS6, SR10B and SR10A during Mid-Ebb Tide) was stopped according to the Contingency Plan for Impact Monitoring.

^{*} DA: Depth-Averaged

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at SR3 - Mid-FloodTide

| Date | Weather | Sea | Sampling | Water | Sampli | ing | Tempera | ature (°C) | ī | Н | Salinit | ty (ppt) | DO Satu | ration (%) | Dissol | ved Oxygen | (mg/L) | Т | urbidity(NT | U) | Suspe | nded Solids | (mg/L) |
|-----------|-----------|-------------|----------|-----------|---------|-----|--------------|------------|------------|---------|--------------|----------|--------------|------------|------------|------------|--------|------------|-------------|-----|--------------|-------------|----------|
| | Condition | Condition** | Time | Depth (m) | Depth (| (m) | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | DA* | Value | Average | DA* | Value | Average | DA* |
| 1-Aug-16^ | Cloudy | Moderate | - | | Surface | - | - | - | - | - | - | - | - | - | | - | | - | - | | - | - | 1 |
| | | | | - | Middle | - | - | - | - | - | - | - | - | - | | - | - | - | - | = | - | - | <u>:</u> |
| | | | | | Bottom | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | - | - | |
| 3-Aug-16 | Cloudy | Moderate | - | | Surface | - | - | - | - | - | - | - | - | - | - | - | | - | - | | - | - | |
| | | | | 1.4 | Middle | 0.7 | 26.2 26.2 | 26.2 | 8.2 8.2 | 8.2 | 26.8 26.8 | 26.8 | 77.9 77.6 | 77.8 | 5.4 5.4 | 5.4 | 5.4 | 5.6 5.6 | 5.6 | 5.6 | 10.1 11.5 | 10.8 | 10.8 |
| | | | | | Bottom | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | - | - | |
| 5-Aug-16 | Sunny | Moderate | - | | Surface | - | - | - | - | - | - | - | - | - | - | - | | - | - | | - | - | |
| | | | | 1.8 | Middle | 0.9 | 26.7 | 26.7 | 8.1 | 8.1 | 24.3 | 24.3 | 73.2 | 73.2 | 5.1 | 5.1 | 5.1 | 4.7 | 4.7 | 4.7 | 4.6 | 5.1 | 5.1 |
| | | | | | Bottom | - | 26.7 | - | 8.1 | - | 24.3 | - | 73.2 | - | 5.1 | - | - | 4.7 | - | | 5.6 | - | |
| 8-Aug-16 | Sunny | Moderate | - | | Surface | - | - | - | - | - | - | - | - | - | - | - | | - | - | | - | - | |
| | | | | 1.4 | Middle | 0.7 | 28.8 | 28.9 | 8.3 | 8.3 | 20.8 | 20.8 | 106.7 | 106.9 | 7.3 | 7.3 | 7.3 | 3.5 | 3.3 | 3.3 | 5.0 | 4.4 | 4.4 |
| | | | | | Bottom | - | 29.0 | - | 8.3 | - | 20.7 | - | 107.1 | - | 7.4 | - | _ | 3.1 | - | | 3.8 | - | |
| 10-Aug-16 | Rainy | Moderate | - | | Surface | _ | - | _ | - | - | - | _ | - | _ | - | _ | | - | - | | - | - | |
| | | | | 1.4 | Middle | 0.7 | 28.2 | 28.2 | 8.3 | 8.3 | 20.7 | 20.8 | 92.7 | 92.0 | 6.5 | 6.4 | 6.4 | 3.2 | 3.2 | 3.2 | 4.0 | 3.5 | 3.5 |
| | | | | | Bottom | _ | 28.2 | - | 8.3 | - | 20.8 | - | 91.2 | _ | 6.3 | | | 3.1 | | | 3.0 | _ | |
| 12-Aug-16 | Fine | Moderate | - | | Surface | _ | - | _ | - | _ | - | _ | - | <u> </u> | - | _ | | - | _ | | - | _ | |
| | | | | 1.4 | Middle | 0.7 | 27.4 | 27.5 | 8.4 | 8.4 | 21.4 | 21.3 | 74.2 | 74.0 | 5.2 | 5.2 | 5.2 | 1.6 | 1.6 | 1.6 | 4.3 | 3.9 | 3.9 |
| | | | | | Bottom | _ | 27.5 | - | 8.4 | - | 21.3 | | 73.7 | _ | 5.2 - | _ | | 1.6 | _ | | 3.4 | _ | |
| 15-Aug-16 | Cloudy | Moderate | - | | Surface | _ | - | _ | - | _ | - | _ | - | _ | - | _ | | - | _ | | - | _ | |
| | | | | 1.4 | Middle | 0.7 | 27.5 | 27.6 | 8.0 | 8.0 | 23.6 | 23.5 | 106.1 | 108.5 | 7.3 | 7.5 | 7.5 | 3.3 | 3.3 | 3.3 | 5.7 | 5.5 | 5.5 |
| | | | | | Bottom | - | 27.6 | - | 8.0 | - | 23.5 | - | 110.9 | - | 7.7 | - | _ | 3.2 | - | 0.0 | 5.3 | - | 0.0 |
| 17-Aug-16 | Rainy | Moderate | - | | Surface | _ | - | _ | - | _ | - | _ | - | _ | - | _ | | - | _ | | - | _ | |
| | | | | 1.6 | Middle | 0.8 | 26.8 | 26.8 | 8.4 | 8.4 | 25.4 | 25.4 | 92.7 | 92.8 | 6.4 | 6.4 | 6.4 | 5.6 | 5.7 | 5.7 | 7.4 | 7.9 | 7.9 |
| | | | | 1.0 | Bottom | 0.0 | 26.8 | 20.0 | 8.4 | 0.4 | 25.4 | 25.4 | 92.9 | 92.0 | 6.4 | 0.4 | | 5.7 | 5.1 | 3.1 | 8.4 | 7.9 | 7.5 |
| 19-Aug-16 | Fine | Moderate | - | | | - | - | | - | | - | - | - | | - | | | - | <u> </u> | | - | | |
| | | | | 4.0 | Surface | - | 26.2 | | 8.2 | | 26.8 | | 73.5 | | - 5.1 | - - | 5.1 | 7.6 | 7.7 | 77 | 7.9 | 0.4 | 0.4 |
| | | | | 1.6 | Middle | 0.8 | 26.3 | 26.3 | 8.2 | 8.2 | 26.8 | 26.8 | 73.4 | 73.5 | 5.1 | 5.1 | | 7.7 | 7.7 | 7.7 | 8.9 | 8.4 | 8.4 |
| | | | | | Bottom | - | - | - | - | - | - | - | - | - | - | - | - | _ | _ | | - | - | |

Remarks:

* DA: Depth-Averaged

** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at SR3 - Mid-FloodTide

| Date | Weather | Sea | Sampling | Water | Samp | ling | Tempera | ature (°C) | F | Н | Salini | ty (ppt) | DO Satu | ration (%) | Dissolv | red Oxygen | (mg/L) | Т | urbidity(NT | J) | Suspe | nded Solids | (mg/L) |
|-----------|-----------|-------------|----------|-----------|---------|------|--------------|------------|------------|---------|--------------|----------|----------------|------------|------------|------------|--------|------------|-------------|-----|--------------|-------------|--------|
| | Condition | Condition** | Time | Depth (m) | Depth | (m) | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | DA* | Value | Average | DA* | Value | Average | DA* |
| 22-Aug-16 | Sunny | Moderate | - | | Surface | - | - | - | - | - | - | - | | - | - | - | 5.1 | - | - | | - | - | |
| | | | | 1.6 | Middle | 0.8 | 28.0 28.0 | 28.0 | 8.1 8.1 | 8.1 | 22.7 22.7 | 22.7 | 73.7 73.4 | 73.6 | 5.1 5.1 | 5.1 | 3.1 | 4.1 3.9 | 4.0 | 4.0 | 4.5 4.4 | 4.5 | 4.5 |
| | | | | | Bottom | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | - | - | |
| 24-Aug-16 | Sunny | Moderate | - | | Surface | • | | - | | - | | - | | - | | - | 5.8 | - | - | | - | - | |
| | | | | 1.4 | Middle | 0.7 | 29.1 29.0 | 29.1 | 8.2 8.2 | 8.2 | 23.3 23.4 | 23.4 | 86.7 85.9 | 86.3 | 5.9 5.8 | 5.8 | 3.0 | 2.8 2.8 | 2.8 | 2.8 | 2.8 3.4 | 3.1 | 3.1 |
| | | | | | Bottom | | | - | | - | | - | | - | | - | - | | - | | - | - | |
| 26-Aug-16 | Sunny | Moderate | - | | Surface | | - | - | - | - | - | - | - | - | - | - | 9.2 | - | - | | - | - | |
| | | | | 1.6 | Middle | 0.8 | 29.9 29.9 | 29.9 | 8.5 8.5 | 8.5 | 21.5 21.7 | 21.6 | 134.2 139.0 | 136.6 | 9.0 9.3 | 9.2 | 9.2 | 3.5 3.5 | 3.5 | 3.5 | 8.7 8.6 | 8.7 | 8.7 |
| | | | | | Bottom | | | - | | - | | - | | - | | - | - | - | - | | - | - | |
| 29-Aug-16 | Sunny | Moderate | - | | Surface | | - | - | - | - | - | - | - | - | - | - | 7.2 | - | - | | - | - | |
| | | | | 1.4 | Middle | 0.7 | 28.3 28.3 | 28.3 | 8.4 8.4 | 8.4 | 25.0 25.2 | 25.1 | 105.4 106.9 | 106.2 | 7.1 7.2 | 7.2 | 1.2 | 3.7 3.8 | 3.8 | 3.8 | 5.8 5.8 | 5.8 | 5.8 |
| | | | | | Bottom | - | | - | | - | | - | 1 1 | - | | - | - | - | - | | - | - | |
| 31-Aug-16 | Sunny | Moderate | - | | Surface | - | - | - | - | - | - | - | | - | - | - | 5.8 | - | - | | - | - | |
| | | | | 1.4 | Middle | 0.7 | 28.3 28.3 | 28.3 | 8.5 8.5 | 8.5 | 25.0 25.3 | 25.1 | 86.7 83.7 | 85.2 | 5.9 5.7 | 5.8 | J.0 | 6.8 6.7 | 6.8 | 6.8 | 14.3 15.7 | 15.0 | 15.0 |
| | | | | | Bottom | - | | - | | - | - | - | | - | - | - | - | - | - | | - | - | |

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

CS6, CSA and CS(Mf)5 are considered as upstream contol stations of mid-flood tide. The averaged turbidity and suspended solid values of these stations will be used for determination of Action and Limit Levels.

^ As Tropical Cyclone Warning Signal No.3 or above was hoisted, water quality monitoring (except the monitoring locations named CSA, CS6, SR10B and SR10A during Mid-Ebb Tide) was stopped according to the Contingency Plan for Impact Monitoring.

^{*} DA: Depth-Averaged

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at SR4(N) - Mid-EbbTide

| Date | Weather | Sea | Sampling | Water | Samp | ling | Temper | ature (°C) | | рН | Salini | ty (ppt) | DO Satu | ration (%) | Dissol | ved Oxygen | (mg/L) | Т | urbidity(NTl | J) | Suspe | nded Solids | s (mg/L) |
|-----------|-----------|-------------|----------|-----------|----------|------|--------------|------------|------------|---------|--------------|----------|---------------|------------|------------|------------|--------|------------|--------------|------------|------------|-------------|--|
| | Condition | Condition** | Time | Depth (m) | Depth | (m) | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | DA* | Value | Average | DA* | Value | Average | DA* |
| 1-Aug-16^ | Cloudy | Moderate | - | | Surface | - | - | - | - | - | - | - | - | - | - | - | | - | - | | - | - | |
| | | | | - | Middle | - | - | - | - | - | - | - | - | - | - | - | - | - | - | <u>-</u> | - | - | <u>.</u> |
| | | | | | Bottom | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | - | - | 1 |
| 3-Aug-16 | Cloudy | Moderate | 12:40 | | Surface | 1.0 | 26.2 | 26.2 | 8.2 | 8.2 | 26.1 | 26.1 | 90.1 | 88.8 | 6.3 | 6.2 | | 4.4 | 4.4 | | 4.5 | 4.5 | |
| | | | | 3.7 | Middle | _ | 26.2 | - | 8.2 | - | 26.1 | - | 87.4 | - | 6.1 | - | 6.2 | 4.4 | - | 4.4 | 4.5 | - | 4.9 |
| | | | | | Bottom | 2.7 | 26.2 | 26.2 | 8.2 | 8.2 | 26.3 | 26.3 | 88.5 | 90.9 | 6.2 | 6.3 | 6.3 | 4.4 | 4.3 | | 4.6 | 5.3 | 1 |
| 5-Aug-16 | Sunny | Moderate | 13:56 | | Surface | 1.0 | 26.2 27.8 | 27.9 | 8.2 8.2 | 8.2 | 26.3 21.0 | 20.9 | 93.3 77.2 | 77.9 | 6.5 5.4 | 5.4 | | 4.2 5.4 | 5.5 | | 6.0 3.5 | 4.2 | |
| | | | | 4.0 | Middle | | 28.1 | - | 8.2 | - | 20.8 | - | 78.5 - | - | 5.4 | 0 | 5.4 | 5.6 | - | 5.6 | 4.9 | | 4.5 |
| | | | | 4.0 | Bottom | 3.0 | 27.1 | 27.3 | 8.2 | 8.2 | 22.7 | 22.6 | 72.1 | 75.0 | 5.0 | 5.2 | 5.2 | 5.6 | 5.7 | 3.0 | 4.2 | 4.7 | 4.5 |
| 8-Aug-16 | Sunny | Moderate | 15:50 | | | | 27.6 28.9 | | 8.2 8.1 | | 22.5 20.9 | | 77.8 135.0 | | 5.4 9.3 | | 5.2 | 5.7 5.0 | | | 5.2 6.8 | | |
| Ü | , | | | 0.7 | Surface | 1.0 | 29.1 | 29.0 | 8.1 | 8.1 | 20.7 | 20.8 | 133.2 | 134.1 | 9.1 | 9.2 | 9.2 | 4.9 | 5.0 | 5 4 | 6.9 | 6.9 | |
| | | | | 3.7 | Middle | - | 29.0 | - | - 8.1 | - | 20.8 | - | 128.6 | - | - 8.9 | - | | 5.0 | - | 5.1 | 8.7 | - | 7.8 |
| 10-Aug-16 | Rainy | Moderate | 16:59 | | Bottom | 2.7 | 28.7 | 28.9 | 8.1 8.4 | 8.1 | 21.1 | 20.9 | 130.4 93.9 | 129.5 | 8.9 6.5 | 8.9 | 8.9 | 5.1 3.1 | 5.1 | | 8.5 1.8 | 8.6 | <u> </u> |
| 10-Aug-10 | Railly | Moderate | 10.59 | | Surface | 1.0 | 28.3 | 28.4 | 8.4 | 8.4 | 20.5 | 20.6 | 93.7 | 93.8 | 6.5 | 6.5 | 6.5 | 3.0 | 3.1 | | 1.7 | 1.8 | - |
| | | | | 3.8 | Middle | - | - | - | - | - | - | - | - | - | - | - | | - | - | 3.2 | - | - | 1.8 |
| | | | | | Bottom | 2.8 | 27.7 28.1 | 27.9 | 8.3 8.4 | 8.4 | 23.4 23.3 | 23.4 | 94.4 94.6 | 94.5 | 6.5 6.5 | 6.5 | 6.5 | 3.1 3.2 | 3.2 | | 1.8 1.7 | 1.8 | |
| 12-Aug-16 | Rainy | Moderate | 08:38 | | Surface | 1.0 | 27.2 27.1 | 27.2 | 8.2 8.2 | 8.2 | 23.1 24.0 | 23.6 | 73.9 72.6 | 73.3 | 5.1 5.1 | 5.1 | 5.1 | 6.4 6.6 | 6.5 | | 3.0 3.9 | 3.5 | |
| | | | | 3.8 | Middle | - | - | - | - | - | - | - | | - | - | - | 0 | - | - | 6.6 | - | - | 3.3 |
| | | | | | Bottom | 2.8 | 27.1 26.4 | 26.7 | 8.1 8.1 | 8.1 | 25.2 27.4 | 26.3 | 69.9 71.1 | 70.5 | 4.8 4.9 | 4.9 | 4.9 | 6.6 6.5 | 6.6 | | 3.1 2.9 | 3.0 | |
| 15-Aug-16 | Cloudy | Moderate | 11:36 | | Surface | 1.0 | 26.8 26.8 | 26.8 | 8.2 8.2 | 8.2 | 25.0 25.2 | 25.1 | 74.2 74.0 | 74.1 | 5.0 5.0 | 5.0 | 5.0 | 4.1 4.0 | 4.1 | | 5.7 5.4 | 5.6 | |
| | | | | 3.9 | Middle | - | - | - | - | - | - | - | - | - | - | - | 5.0 | - | - | 4.1 | - | - | 5.9 |
| | | | | | Bottom | 2.9 | 26.4 26.8 | 26.6 | 8.2 8.2 | 8.2 | 26.4 26.3 | 26.4 | 75.2 75.1 | 75.2 | 5.1 5.1 | 5.1 | 5.1 | 4.1 4.0 | 4.1 | | 5.7 6.5 | 6.1 | |
| 17-Aug-16 | Rainy | Moderate | 12:42 | | Surface | 1.0 | 26.3 26.2 | 26.3 | 8.3 8.3 | 8.3 | 25.6 25.6 | 25.6 | 77.4 77.9 | 77.7 | 5.4 5.5 | 5.4 | | 5.3 5.3 | 5.3 | | 6.3 6.2 | 6.3 | |
| | | | | 3.7 | Middle | - | - | - | - | - | - | - | - | - | - | - | 5.4 | - | - | 5.6 | - | - | 6.2 |
| | | | | | Bottom | 2.7 | 26.1 26.5 | 26.3 | 8.3 8.3 | 8.3 | 26.7 | 26.6 | 74.2 75.9 | 75.1 | 5.2 5.3 | 5.2 | 5.2 | 5.9 5.8 | 5.9 | | 6.0 | 6.1 | 1 |
| 19-Aug-16 | Fine | Moderate | 13:06 | | Surface | 1.0 | 26.5 | 26.5 | 8.3 | 8.3 | 26.5 27.0 | 27.0 | 81.5 | 83.1 | 5.6 | 5.7 | | 5.0 | 4.9 | | 5.5 | 5.4 | |
| | | | | 3.7 | Middle | | 26.5 | - | 8.3 | - | 27.0 | - | 84.6 | - | 5.9 | - | 5.7 | 4.8 | _ | 4.9 | 5.2 | - | 5.8 |
| | | | | | Bottom | 2.7 | 26.5 | 26.5 | 8.3 | 8.3 | 27.0 | 27.0 | 82.4 | 81.6 | 5.7 | 5.6 | 5.6 | 4.9 | 4.9 | | 5.8 | 6.2 | 1 |
| | | | | | Dolloili | ۷.1 | 26.5 | 20.0 | 8.3 | 0.0 | 27.0 | 21.0 | 80.8 | 01.0 | 5.6 | 5.0 | 5.0 | 4.9 | ਚ.ਹ | | 6.6 | 0.2 | |

Remarks:

* DA: Depth-Averaged

** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at SR4(N) - Mid-EbbTide

| Date | Weather | Sea | Sampling | Water | Samp | ling | Temper | ature (°C) | | ρΗ | Salini | ty (ppt) | DO Satu | ration (%) | Dissol | ved Oxygen | (mg/L) | 1 | urbidity(NT | J) | Susper | nded Solids | (mg/L) د |
|-----------|-----------|-------------|----------|-----------|---------|------|--------------|------------|------------|---------|--------------|----------|----------------|------------|------------|------------|--------|------------|-------------|-----|------------|-------------|----------|
| | Condition | Condition** | Time | Depth (m) | Depth | (m) | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | DA* | Value | Average | DA* | Value | Average | DA* |
| 22-Aug-16 | Sunny | Moderate | 14:44 | | Surface | 1.0 | 29.0 28.8 | 28.9 | 8.3 8.2 | 8.3 | 18.8 19.3 | 19.0 | 82.1 77.3 | 79.7 | 5.7 5.4 | 5.5 | 5.5 | 7.1 7.0 | 7.1 | | 6.6 6.2 | 6.4 | ļ |
| | | | | 4.0 | Middle | - | - | - | - | - | - | - | - | - | - | - | 0.0 | - | - | 7.2 | - | - | 6.5 |
| | | | | | Bottom | 3.0 | 28.5 28.3 | 28.4 | 8.2 8.3 | 8.2 | 20.4 20.4 | 20.4 | 75.5 77.3 | 76.4 | 5.2 5.4 | 5.3 | 5.3 | 7.3 7.2 | 7.3 | | 7.2 5.7 | 6.5 | |
| 24-Aug-16 | Sunny | Moderate | 16:37 | | Surface | 1.0 | 29.7 30.0 | 29.9 | 8.4 8.4 | 8.4 | 22.1 22.1 | 22.1 | 92.6 89.7 | 91.2 | 6.2 6.1 | 6.2 | 6.2 | 6.1 6.0 | 6.1 | | 3.7 4.1 | 3.9 | |
| | | | | 3.8 | Middle | 1 | | • | | - | | - | | - | | - | 0.2 | - | - | 6.1 | | - | 3.8 |
| | | | | | Bottom | 2.8 | 28.6 29.5 | 29.1 | 8.4 8.4 | 8.4 | 23.1 22.4 | 22.8 | 86.7 90.6 | 88.7 | 5.8 6.1 | 6.0 | 6.0 | 6.1 6.0 | 6.1 | | 3.5 3.6 | 3.6 | |
| 26-Aug-16 | Sunny | Moderate | 08:00 | | Surface | 1.0 | 29.3 29.2 | 29.3 | 8.4 8.4 | 8.4 | 22.5 22.5 | 22.5 | 101.2 100.4 | 100.8 | 6.9 6.8 | 6.8 | 6.8 | 7.4 7.5 | 7.5 | | 4.1 4.8 | 4.5 | |
| | | | | 3.7 | Middle | - | - | - | - | - | - | - | - | - | - | - | 0.0 | - | - | 7.5 | - | - | 5.5 |
| | | | | | Bottom | 2.7 | 29.0 28.9 | 29.0 | 8.4 8.4 | 8.4 | 24.1 24.2 | 24.2 | 101.5 103.2 | 102.4 | 6.8 7.0 | 6.9 | 6.9 | 7.5 7.5 | 7.5 | | 6.0 6.8 | 6.4 | |
| 29-Aug-16 | Sunny | Moderate | 11:33 | | Surface | 1.0 | 28.3 28.4 | 28.4 | 8.3 8.3 | 8.3 | 24.2 24.6 | 24.4 | 75.9 77.2 | 76.6 | 5.2 5.3 | 5.3 | 5.3 | 6.5 6.5 | 6.5 | | 6.8 6.1 | 6.5 | |
| | | | | 3.8 | Middle | - | | - | | - | | - | | - | | - | 3.3 | - | - | 6.6 | | - | 6.3 |
| | | | | | Bottom | 2.8 | 27.8 27.9 | 27.8 | 8.3 8.3 | 8.3 | 27.8 28.0 | 27.9 | 74.6 76.3 | 75.5 | 5.2 5.2 | 5.2 | 5.2 | 6.5 6.6 | 6.6 | | 6.5 5.4 | 6.0 | |
| 31-Aug-16 | Sunny | Moderate | 12:57 | | Surface | 1.0 | 28.4 28.5 | 28.5 | 8.3 8.3 | 8.3 | 29.0 29.0 | 29.0 | 79.6 81.1 | 80.4 | 5.3 5.4 | 5.3 | 5.3 | 7.5 7.3 | 7.4 | | 5.4 4.4 | 4.9 | |
| | | | | 3.7 | Middle | - | - | - | - | - | - | - | - | - | - | - | J.J | - | - | 7.4 | - | - | 5.1 |
| | | | | | Bottom | 2.7 | 28.0 28.4 | 28.2 | 8.3 8.3 | 8.3 | 29.5 29.1 | 29.3 | 79.8 80.4 | 80.1 | 5.3 5.3 | 5.3 | 5.3 | 7.5 7.3 | 7.4 | | 4.8 5.6 | 5.2 | |

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

[^] As Tropical Cyclone Warning Signal No.3 or above was hoisted, water quality monitoring (except the monitoring locations named CSA, CS6, SR10B(N) and SR10A during Mid-Ebb Tide) was stopped according to the Contingency Plan for Impact Monitoring.

^{*} DA: Depth-Averaged

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at SR4(N) - Mid-FloodTide

| Date | Weather | Sea | Sampling | Water | Sampl | ling | Temper | ature (°C) | | Н | Salini | ty (ppt) | DO Satu | ration (%) | Dissol | ved Oxygen | (mg/L) | Т | urbidity(NTl | J) | Suspe | nded Solids | s (mg/L) |
|------------|-----------|-------------|----------|-----------|---------|------|--------------|------------|------------|---------|--------------|----------|----------------|------------|------------|------------|--------|--------------|--------------|----------|--------------|-------------|----------|
| | Condition | Condition** | Time | Depth (m) | Depth | (m) | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | DA* | Value | Average | DA* | Value | Average | DA* |
| 1-Aug-16^ | Cloudy | Moderate | - | | Surface | - | - | - | - | - | - | - | - | - | - | - | | - | - | | - | - | |
| | | | | - | Middle | - | - | - | - | - | - | - | - | - | - | - | - | - | - | <u>=</u> | - | - | _ |
| | | | | | Bottom | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | - | - | 1 |
| 3-Aug-16 | Cloudy | Moderate | 06:47 | | Surface | 1.0 | 26.2 | 26.2 | 8.3 | 8.3 | 27.5 | 27.5 | 79.6 | 79.4 | 5.5 | 5.5 | | 5.3 | 5.3 | | 6.4 | 6.7 | |
| | | | | 3.8 | Middle | _ | 26.2 | - | 8.3 | - | 27.5 | _ | 79.2 | - | 5.5 - | - | 5.5 | 5.2 | - | 5.4 | 6.9 | - | 6.7 |
| | | | | | Bottom | 2.8 | 26.2 | 26.2 | 8.3 | 8.3 | 27.6 | 27.8 | 79.5 | 79.4 | 5.5 | 5.5 | 5.5 | 5.4 | 5.4 | | 6.2 | 6.7 | 1 |
| 5-Aug-16 | Sunny | Moderate | 08:16 | | Surface | 1.0 | 26.2 26.9 | 26.9 | 8.3 8.1 | 8.1 | 27.9 22.7 | 22.6 | 79.2 73.5 | 76.3 | 5.5 5.2 | 5.3 | | 5.4 9.5 | 9.6 | | 7.2 4.3 | 4.3 | |
| | | | | 3.9 | | 1.0 | 26.9 | 20.3 | 8.1 | - | 22.6 | - | 79.0 | - | 5.5 | 0.0 | 5.3 | 9.6 | - | 9.6 | 4.3 | - | 4.3 |
| | | | | 3.9 | Middle | - | 26.8 | | - 8.1 | | 23.1 | | - 72.3 | - | - 5.1 | - | 5.0 | 9.4 | | 9.0 | 4.2 | | 4.3 |
| 8-Aug-16 | Sunny | Moderate | 10:03 | | Bottom | 2.9 | 26.7 28.5 | 26.8 | 8.1 8.1 | 8.1 | 23.3 20.2 | 23.2 | 75.2 80.4 | 73.8 | 5.3 5.6 | 5.2 | 5.2 | 9.5 10.4 | 9.5 | | 4.4 13.7 | 4.3 | <u> </u> |
| 0 / ldg 10 | ou, | moderate | 10.00 | | Surface | 1.0 | 28.4 | 28.5 | 8.1 | 8.1 | 20.4 | 20.3 | 79.8 | 80.1 | 5.5 | 5.6 | 5.6 | 10.5 | 10.5 | | 11.9 | 12.8 | - |
| | | | | 3.9 | Middle | - | 28.5 | - | - 8.1 | - | 20.4 | - | - 80.1 | - | - 5.6 | - | | 10.4 | - | 10.6 | 9.1 | - | 11.5 |
| 10.1 | B : | | 10.10 | | Bottom | 2.9 | 28.4 | 28.4 | 8.1 | 8.1 | 20.7 | 20.6 | 80.3 | 80.2 | 5.6 | 5.6 | 5.6 | 10.8 | 10.6 | | 11.3 | 10.2 | |
| 10-Aug-16 | Rainy | Moderate | 12:18 | | Surface | 1.0 | 28.2 28.2 | 28.2 | 8.3 8.3 | 8.3 | 20.2 20.0 | 20.1 | 86.2 86.1 | 86.2 | 6.0 6.0 | 6.0 | 6.0 | 4.4 4.4 | 4.4 | | 1.7 1.5 | 1.6 | |
| | | | | 3.8 | Middle | - | - | - | - | - | - | - | - | - | - | - | | - | - | 4.4 | - | - | 1.8 |
| | | | | | Bottom | 2.8 | 28.1 28.1 | 28.1 | 8.3 8.3 | 8.3 | 21.0 20.9 | 21.0 | 86.1 86.1 | 86.1 | 6.0 6.0 | 6.0 | 6.0 | 4.3 4.4 | 4.4 | | 2.0 2.0 | 2.0 | |
| 12-Aug-16 | Fine | Moderate | 14:29 | | Surface | 1.0 | 28.0 27.9 | 27.9 | 8.3 8.3 | 8.3 | 20.1 20.4 | 20.2 | 77.7 78.1 | 77.9 | 5.4 5.5 | 5.5 | 5.5 | 4.5 4.4 | 4.5 | | 3.8 3.7 | 3.8 | |
| | | | | 3.8 | Middle | - | - | - | - | - | - | - | - | - | - | - | 5.5 | - | - | 4.5 | - | - | 3.7 |
| | | | | | Bottom | 2.8 | 27.5 27.8 | 27.6 | 8.2 8.2 | 8.2 | 22.8 23.2 | 23.0 | 77.1 79.1 | 78.1 | 5.4 5.5 | 5.4 | 5.4 | 4.4 4.3 | 4.4 | | 3.6 3.6 | 3.6 | |
| 15-Aug-16 | Cloudy | Moderate | 17:38 | | Surface | 1.0 | 27.3 27.4 | 27.4 | 8.5 8.5 | 8.5 | 23.9 23.9 | 23.9 | 103.1 102.1 | 102.6 | 7.2 7.1 | 7.1 | | 11.1 11.5 | 11.3 | | 11.0 11.4 | 11.2 | |
| | | | | 3.7 | Middle | - | - | - | - | - | - | - | - | - | - | - | 7.1 | - | - | 11.3 | - | - | 11.5 |
| | | | | | Bottom | 2.7 | 27.1 27.1 | 27.1 | 8.4 | 8.4 | 24.8 | 24.9 | 103.0 103.7 | 103.4 | 7.1 7.2 | 7.2 | 7.2 | 11.3 11.2 | 11.3 | | 11.7 | 11.8 | 1 |
| 17-Aug-16 | Rainy | Moderate | 18:58 | | Surface | 1.0 | 26.6 | 26.6 | 8.4 | 8.3 | 25.1 26.3 | 26.3 | 78.4 | 78.7 | 5.4 | 5.4 | | 11.1 | 11.2 | | 10.3 | 10.4 | |
| | | | | 3.8 | Middle | | 26.5 | - | 8.3 | - | 26.3 | - | 78.9 - | _ | 5.5 - | _ | 5.4 | 11.2 | _ | 11.3 | 10.4 | - | 13.3 |
| | | | | | Bottom | 2.8 | 26.6 | 26.5 | 8.3 | 8.4 | 26.3 | 26.4 | 77.9 | 77.1 | 5.4 | 5.3 | 5.3 | 11.3 | 11.4 | | 16.0 | 16.1 | 1 |
| 19-Aug-16 | Fine | Moderate | 07:27 | | Surface | 1.0 | 26.5 26.3 | 26.2 | 8.4 8.2 | 8.2 | 26.4 26.8 | 26.9 | 76.3 79.8 | 79.6 | 5.3 5.6 | 5.6 | 0.0 | 11.4 4.8 | 4.8 | | 16.2 5.7 | 5.0 | |
| - | | | | 2.0 | | 1.0 | 26.2 | | 8.2 | | 27.0 | | 79.4 - | | 5.6 | 5.0 | 5.6 | 4.8 | | 4.0 | 4.2 | | |
| | | | | 3.8 | Middle | - | 26.1 | - | - 8.2 | - | 27.6 | - | 79.5 | - | 5.6 | - | | 4.8 | - | 4.9 | 5.8 | - | 5.3 |
| | | | | | Bottom | 2.8 | 26.2 | 26.1 | 8.2 | 8.2 | 27.4 | 27.5 | 79.5 | 79.5 | 5.6 | 5.6 | 5.6 | 5.0 | 4.9 | | 5.3 | 5.6 | |

Remarks:

* DA: Depth-Averaged

** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at SR4(N) - Mid-FloodTide

| Date | Weather | Sea | Sampling | Water | Samp | ling | Temper | ature (°C) | | ρΗ | Salini | ty (ppt) | DO Satu | ration (%) | Dissol | ved Oxygen | (mg/L) | 1 | urbidity(NT | J) | Susper | nded Solids | (mg/L) د |
|-----------|-----------|-------------|----------|-----------|---------|------|--------------|------------|------------|---------|--------------|----------|----------------|------------|------------|------------|--------|--------------|-------------|------|--------------|-------------|----------|
| | Condition | Condition** | Time | Depth (m) | Depth | (m) | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | DA* | Value | Average | DA* | Value | Average | DA* |
| 22-Aug-16 | Sunny | Moderate | 09:36 | | Surface | 1.0 | 28.1 28.1 | 28.1 | 8.1 8.1 | 8.1 | 21.1 21.2 | 21.2 | 79.9 79.7 | 79.8 | 5.7 5.7 | 5.7 | 5.7 | 7.0 7.1 | 7.1 | | 8.2 9.4 | 8.8 | |
| | | | | 3.6 | Middle | - | - | - | - | - | - | - | - | - | - | - | 0 | - | - | 7.1 | - | - | 9.3 |
| | | | | | Bottom | 2.6 | 28.0 28.1 | 28.0 | 8.1 8.1 | 8.1 | 21.8 21.2 | 21.5 | 78.4 80.0 | 79.2 | 5.6 5.7 | 5.7 | 5.7 | 7.1 6.8 | 7.0 | | 9.3 10.1 | 9.7 | |
| 24-Aug-16 | Sunny | Moderate | 11:55 | | Surface | 1.0 | 28.7 28.7 | 28.7 | 8.2 8.2 | 8.2 | 22.5 22.5 | 22.5 | 78.3 77.9 | 78.1 | 5.4 5.3 | 5.3 | 5.3 | 5.5 5.5 | 5.5 | | 2.7 2.7 | 2.7 | |
| | | | | 3.7 | Middle | - | - | - | - | - | - | - | - | - | - | - | 0.0 | - | - | 5.6 | - | - | 2.5 |
| | | | | | Bottom | 2.7 | 28.5 28.6 | 28.6 | 8.2 8.2 | 8.2 | 23.3 23.3 | 23.3 | 78.8 78.3 | 78.6 | 5.4 5.3 | 5.4 | 5.4 | 5.5 5.6 | 5.6 | | 2.1 2.5 | 2.3 | |
| 26-Aug-16 | Sunny | Moderate | 13:26 | | Surface | 1.0 | 29.6 29.6 | 29.6 | 8.6 8.6 | 8.6 | 21.3 22.0 | 21.6 | 123.9 127.6 | 125.8 | 8.4 8.6 | 8.5 | 8.5 | 10.6 10.7 | 10.7 | | 4.0 4.6 | 4.3 | |
| | | | | 3.7 | Middle | i | | - | | - | | - | | - | | - | 0.5 | - | - | 10.7 | | - | 4.7 |
| | | | | | Bottom | 2.7 | 29.4 29.6 | 29.5 | 8.5 8.5 | 8.5 | 23.0 22.8 | 22.9 | 121.5 123.7 | 122.6 | 8.2 8.3 | 8.2 | 8.2 | 10.5 10.6 | 10.6 | | 5.9 4.0 | 5.0 | |
| 29-Aug-16 | Sunny | Moderate | 17:27 | | Surface | 1.0 | 28.1 28.1 | 28.1 | 8.4 8.4 | 8.4 | 26.9 26.9 | 26.9 | 82.2 89.3 | 85.8 | 5.5 6.0 | 5.8 | 5.8 | 18.6 18.5 | 18.6 | | 13.2 13.7 | 13.5 | |
| | | | | 3.7 | Middle | • | | - | | - | | - | | - | | - | 3.0 | - | - | 18.6 | 1 1 | - | 13.6 |
| | | | | | Bottom | 2.7 | 28.0 28.0 | 28.0 | 8.4 8.5 | 8.4 | 27.8 27.7 | 27.8 | 78.8 88.8 | 83.8 | 5.3 6.0 | 5.6 | 5.6 | 18.4 18.5 | 18.5 | | 13.3 13.8 | 13.6 | |
| 31-Aug-16 | Sunny | Moderate | 18:33 | | Surface | 1.0 | 28.3 28.4 | 28.4 | 8.4 8.4 | 8.4 | 27.7 27.6 | 27.6 | 78.3 82.1 | 80.2 | 5.2 5.5 | 5.4 | 5.4 | 19.2 18.9 | 19.1 | | 15.2 15.0 | 15.1 | |
| | | | | 3.6 | Middle | - | - | - | | - | | - | - | - | | - | 5.4 | - | - | 18.9 | | - | 17.6 |
| | | | | | Bottom | 2.6 | 28.2 28.1 | 28.2 | 8.4 8.4 | 8.4 | 27.8 27.9 | 27.9 | 80.0 78.7 | 79.4 | 5.3 5.3 | 5.3 | 5.3 | 18.5 18.8 | 18.7 | | 20.3 19.9 | 20.1 | |

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

[^] As Tropical Cyclone Warning Signal No.3 or above was hoisted, water quality monitoring (except the monitoring locations named CSA, CS6, SR10B(N) and SR10A during Mid-Ebb Tide) was stopped according to the Contingency Plan for Impact Monitoring.

^{*} DA: Depth-Averaged

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at SR5 - Mid-EbbTide

| Date | Weather | Sea | Sampling | Water | Samp | ling | Tempera | ature (°C) | t | Н | Salini | ty (ppt) | DO Satu | ration (%) | Dissol | ed Oxygen | (mg/L) | Т | urbidity(NT | U) | Suspe | ended Solids | (mg/L) |
|------------|-----------|-------------|----------|-----------|---------|------|--------------|------------|------------|---------|--------------|----------|--------------|------------|------------|-----------|--------|-------------|-------------|----------|------------|--------------|----------|
| | Condition | Condition** | Time | Depth (m) | Depth | (m) | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | DA* | Value | Average | DA* | Value | Average | DA* |
| 1-Aug-16^ | Cloudy | Moderate | - | | Surface | - | - | - | - | - | - | - | - | - | - | - | | - | - | | - | - | |
| | | | | - | Middle | - | - | - | - | - | - | - | - | - | - | - | - | - | - | <u>-</u> | - | - | <u>-</u> |
| | | | | | Bottom | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | - | - | |
| 3-Aug-16 | Cloudy | Moderate | 12:48 | | Surface | 1.0 | 26.1 | 26.1 | 8.0 | 8.0 | 26.1 | 26.3 | 84.6 | 82.8 | 5.9 | 5.8 | | 10.4 | 10.5 | | 11.7 | 11.4 | |
| | | | | 5.0 | Middle | _ | 26.0 | - | 8.0 | - | 26.5 | _ | 81.0 | - | 5.7 | - | 5.8 | 10.5 | - | 10.6 | 11.1 | - | 10.9 |
| | | | | | Bottom | 4.0 | 26.0 | 25.9 | 7.9 | 7.9 | 26.6 | 26.9 | 79.7 | 80.6 | 5.6 | 5.6 | 5.6 | 10.5 | 10.6 | | 10.2 | 10.3 | |
| 5-Aug-16 | Sunny | Moderate | 14:18 | | Surface | 1.0 | 25.8 27.6 | 27.6 | 7.9 7.9 | 8.0 | 27.2 23.1 | 23.2 | 81.4 78.2 | 78.9 | 5.7 5.4 | 5.5 | 0.0 | 10.6 3.5 | 3.6 | | 3.3 | 3.8 | |
| | - | | | 5.6 | | 1.0 | 27.6 | 27.0 | 8.0 | | 23.3 | 23.2 | 79.5 - | 76.9 | 5.5 - | 3.3 | 5.5 | 3.6 | 3.0 | 3.7 | 4.3 | | 4.0 |
| | | | | 5.0 | Middle | - | - 27.6 | - | 7.9 | - | 23.4 | - | - 76.1 | | 5.3 | - | | 3.7 | - | 3.7 | 3.9 | - | 4.2 |
| 8-Aug-16 | Sunny | Moderate | 15:52 | 1 | Bottom | 4.6 | 27.5 27.9 | 27.5 | 7.9 8.0 | 7.9 | 23.5 22.7 | 23.5 | 76.0 91.9 | 76.1 | 5.3 6.4 | 5.3 | 5.3 | 3.7 | 3.7 | | 5.0 2.6 | 4.5 | |
| 0 / ldg 10 | Cuiniy | moderate | 10.02 | | Surface | 1.0 | 27.8 | 27.9 | 8.0 | 8.0 | 23.0 | 22.9 | 90.3 | 91.1 | 6.3 | 6.3 | 6.3 | 3.1 | 3.2 | | 4.1 | 3.4 | |
| | | | | 5.2 | Middle | - | - 29.9 | - | 8.0 | - | - 19.5 | - | - 89.3 | - | 6.2 | - | | 3.4 | - | 3.4 | 3.9 | - | 3.7 |
| 10.1 | | | | | Bottom | 4.2 | 29.9 | 29.9 | 8.0 | 8.0 | 20.4 | 20.0 | 89.7 | 89.5 | 6.1 | 6.2 | 6.2 | 3.5 | 3.5 | | 3.8 | 3.9 | |
| 10-Aug-16 | Rainy | Moderate | 17:15 | | Surface | 1.0 | 27.7 27.8 | 27.7 | 8.0 8.0 | 8.0 | 23.6 23.5 | 23.6 | 84.8 85.3 | 85.1 | 5.9 5.9 | 5.9 | 5.9 | 1.3 1.5 | 1.4 | | 1.5 1.5 | 1.5 | |
| | | | | 5.2 | Middle | - | - | - | - | - | - | - | - | - | - | - | | - | - | 1.6 | - | - | 1.5 |
| | | | | | Bottom | 4.2 | 27.7 27.8 | 27.8 | 8.1 8.1 | 8.1 | 21.0 20.7 | 20.8 | 83.7 84.3 | 84.0 | 5.8 5.8 | 5.8 | 5.8 | 1.7 1.8 | 1.8 | | 1.4 1.5 | 1.5 | |
| 12-Aug-16 | Rainy | Moderate | 08:11 | | Surface | 1.0 | 27.9 27.8 | 27.8 | 8.0 8.0 | 8.0 | 19.9 20.4 | 20.2 | 76.1 75.2 | 75.7 | 5.4 5.3 | 5.3 | 5.3 | 1.4 1.4 | 1.4 | | 2.1 2.2 | 2.2 | |
| | | | | 5.1 | Middle | - | - | - | - | - | - | - | - | - | - | - | 5.5 | - | - | 1.4 | - | - | 2.4 |
| | | | | | Bottom | 4.1 | 27.7 26.4 | 27.0 | 7.9 7.9 | 7.9 | 25.4 26.6 | 26.0 | 75.1 75.0 | 75.1 | 5.1 5.2 | 5.2 | 5.2 | 1.4 1.4 | 1.4 | | 2.4 2.8 | 2.6 | |
| 15-Aug-16 | Cloudy | Moderate | 10:38 | | Surface | 1.0 | 26.6 26.7 | 26.6 | 7.9 7.9 | 7.9 | 24.8 24.7 | 24.7 | 73.4 73.6 | 73.5 | 5.2 5.3 | 5.2 | | 3.1 3.2 | 3.2 | | 5.3 4.8 | 5.1 | |
| | | | | 5.2 | Middle | - | - | - | - | - | - | - | - | - | - | - | 5.2 | - | - | 3.3 | - | - | 5.1 |
| | | | | | Bottom | 4.2 | 26.6 26.5 | 26.6 | 7.9 7.9 | 7.9 | 25.1 25.8 | 25.5 | 72.6 73.0 | 72.8 | 5.2 5.2 | 5.2 | 5.2 | 3.4 3.4 | 3.4 | | 4.6 5.6 | 5.1 | |
| 17-Aug-16 | Rainy | Moderate | 12:26 | | Surface | 1.0 | 26.2 26.3 | 26.3 | 8.0 8.0 | 8.0 | 27.6 27.5 | 27.5 | 85.3 85.4 | 85.4 | 5.9 5.9 | 5.9 | | 2.7 | 2.7 | | 3.7 3.6 | 3.7 | |
| | | | | 5.1 | Middle | - | - 20.3 | - | - 8.0 | - | - | - | - 85.4 | - | - | - | 5.9 | - | - | 2.8 | - | - | 3.7 |
| | | | | | Bottom | 4.1 | 26.2 | 26.1 | 8.0 | 8.0 | 27.9 | 27.9 | 84.8 | 84.5 | 5.9 | 5.9 | 5.9 | 2.8 | 2.8 | | 3.7 | 3.6 | |
| 19-Aug-16 | Fine | Moderate | 13:12 | 1 | Surface | 1.0 | 26.1 26.1 | 26.2 | 8.0 | 8.1 | 28.0 | 28.8 | 75.3 | 75.3 | 5.9 | 5.3 | | 10.3 | 10.3 | | 13.6 | 13.4 | |
| | | | | 5.1 | Middle | | 26.2 | - | 8.1 | - | 28.8 | - | 75.2 - | - | 5.3 - | | 5.3 | 10.2 | - | 10.5 | 13.1 | - | 14.0 |
| | | | | 5.1 | Bottom | 4.1 | 26.2 | 26.2 | 8.1 | 8.1 | 28.8 | 28.7 | 74.1 | 74.0 | 5.2 | 5.2 | 5.2 | 10.6 | 10.6 | 10.0 | 14.6 | 14.5 | 14.0 |
| | | | <u> </u> | | DOMOITI | 4.1 | 26.2 | 20.2 | 8.1 | 0.1 | 28.7 | 20.1 | 73.8 | 74.0 | 5.2 | J.Z | J.∠ | 10.5 | 10.0 | | 14.4 | 14.5 | <u> </u> |

Remarks:

* DA: Depth-Averaged

** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at SR5 - Mid-EbbTide

| Date | Weather | Sea | Sampling | Water | Samp | ling | Temper | ature (°C) | | ρΗ | Salini | ty (ppt) | DO Satu | ration (%) | Dissol | ved Oxygen | (mg/L) | 1 | urbidity(NT | J) | Suspe | nded Solids | (mg/L) د |
|-----------|-----------|-------------|----------|-----------|---------|------|--------------|------------|------------|---------|--------------|----------|--------------|------------|------------|------------|--------|------------|-------------|-----|------------|-------------|----------|
| | Condition | Condition** | Time | Depth (m) | Depth | (m) | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | DA* | Value | Average | DA* | Value | Average | DA* |
| 22-Aug-16 | Sunny | Moderate | 15:15 | | Surface | 1.0 | 28.1 28.1 | 28.1 | 8.0 8.0 | 8.0 | 23.3 23.5 | 23.4 | 76.2 75.8 | 76.0 | 5.3 5.3 | 5.3 | 5.3 | 6.7 6.8 | 6.8 | | 6.2 6.5 | 6.4 | |
| | | | | 5.2 | Middle | - | - | - | - | - | - | - | - | - | - | - | 0.0 | - | - | 7.2 | - | - | 6.6 |
| | | | | | Bottom | 4.2 | 28.3 28.1 | 28.2 | 8.0 8.0 | 8.0 | 23.1 23.5 | 23.3 | 74.6 75.6 | 75.1 | 5.1 5.2 | 5.1 | 5.1 | 7.5 7.4 | 7.5 | | 6.2 7.2 | 6.7 | |
| 24-Aug-16 | Sunny | Moderate | 16:21 | | Surface | 1.0 | 30.1 30.2 | 30.2 | 8.1 8.1 | 8.1 | 15.5 16.5 | 16.0 | 77.6 82.3 | 80.0 | 5.4 5.7 | 5.5 | 5.5 | 3.4 3.3 | 3.4 | | 2.7 2.6 | 2.7 | |
| | | | | 5.1 | Middle | - | | - | | - | | - | - | - | | - | 0.0 | - | - | 3.5 | - | - | 2.9 |
| | | | | | Bottom | 4.1 | 28.5 28.4 | 28.4 | 8.0 8.0 | 8.0 | 22.1 21.4 | 21.7 | 78.9 76.2 | 77.6 | 5.4 5.3 | 5.3 | 5.3 | 3.6 3.5 | 3.6 | | 2.8 3.3 | 3.1 | |
| 26-Aug-16 | Sunny | Moderate | 07:13 | | Surface | 1.0 | 29.4 29.4 | 29.4 | 7.9 7.9 | 7.9 | 13.9 14.2 | 14.0 | 80.8 80.6 | 80.7 | 5.7 5.8 | 5.7 | 5.7 | 3.9 3.8 | 3.9 | | 5.3 4.3 | 4.8 | |
| | | | | 5.1 | Middle | i | | - | | - | | - | - | - | | - | 5.7 | - | - | 4.0 | - | - | 4.4 |
| | | | | | Bottom | 4.1 | 29.4 29.4 | 29.4 | 7.9 7.9 | 7.9 | 14.6 14.4 | 14.5 | 80.1 79.9 | 80.0 | 5.7 5.6 | 5.7 | 5.7 | 4.0 4.1 | 4.1 | | 4.3 3.7 | 4.0 | |
| 29-Aug-16 | Sunny | Moderate | 11:21 | | Surface | 1.0 | 27.8 27.8 | 27.8 | 8.2 8.2 | 8.2 | 19.1 19.0 | 19.1 | 86.6 85.0 | 85.8 | 6.1 6.0 | 6.1 | 6.1 | 3.3 3.3 | 3.3 | | 6.8 7.4 | 7.1 | |
| | | | | 5.2 | Middle | • | | - | | - | | - | - | - | | - | 0.1 | - | - | 3.4 | - | - | 6.5 |
| | | | | | Bottom | 4.2 | 27.8 27.8 | 27.8 | 8.2 8.2 | 8.2 | 19.3 19.2 | 19.2 | 84.7 86.2 | 85.5 | 6.0 6.1 | 6.0 | 6.0 | 3.4 3.3 | 3.4 | | 5.1 6.5 | 5.8 | |
| 31-Aug-16 | Sunny | Moderate | 12:10 | | Surface | 1.0 | 28.6 28.4 | 28.5 | 8.1 8.1 | 8.1 | 26.6 26.7 | 26.7 | 77.0 76.8 | 76.9 | 5.2 5.1 | 5.1 | 5.1 | 3.4 3.2 | 3.3 | | 3.6 5.3 | 4.5 | |
| | | | | 4.9 | Middle | - | | - | | - | | - | - | - | | - | 0.1 | - | - | 3.5 | - | - | 5.2 |
| | | | | | Bottom | 3.9 | 28.5 28.4 | 28.5 | 8.1 8.0 | 8.1 | 26.7 26.8 | 26.8 | 76.1 76.0 | 76.1 | 5.1 5.1 | 5.1 | 5.1 | 3.6 3.6 | 3.6 | | 6.2 5.6 | 5.9 | |

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

[^] As Tropical Cyclone Warning Signal No.3 or above was hoisted, water quality monitoring (except the monitoring locations named CSA, CS6, SR10B(N) and SR10A during Mid-Ebb Tide) was stopped according to the Contingency Plan for Impact Monitoring.

^{*} DA: Depth-Averaged

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at SR5 - Mid-FloodTide

| Date | Weather | Sea | Sampling | Water | Samp | ling | Tempera | ature (°C) | F | Н | Salini | ty (ppt) | DO Satu | ration (%) | Dissolv | ed Oxygen | (mg/L) | Т | urbidity(NT | J) | Suspe | nded Solids | (mg/L) |
|-----------|-----------|-------------|----------|-----------|---------|------|--------------|------------|------------|----------|--------------|----------|--------------|------------|------------|-----------|--------|-------------|-------------|------|--------------|-------------|----------|
| | Condition | Condition** | Time | Depth (m) | Depth | (m) | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | DA* | Value | Average | DA* | Value | Average | DA* |
| 1-Aug-16^ | Cloudy | Moderate | - | | Surface | - | - | - | - | - | - | - | - | - | - | - | | - | - | | - | - | |
| | | | | - | Middle | - | - | - | | - | - | - | - | - | - | - | - | - | - | = | - | - | = |
| | | | | | Bottom | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | - | - | İ |
| 3-Aug-16 | Cloudy | Moderate | 06:13 | | Surface | 1.0 | 26.1 | 26.1 | 8.0 | 8.0 | 22.1 | 22.3 | 78.2 | 78.8 | 5.6 | 5.6 | | 10.2 | 10.1 | | 10.6 | 10.6 | |
| | | | | 5.1 | Middle | | 26.1 | _ | 8.0 | _ | 22.5 | _ | 79.3 | _ | 5.7 | _ | 5.6 | 10.0 | _ | 10.4 | 10.6 | - | 13.3 |
| | | | | | Bottom | 4.1 | 26.0 | 26.0 | 8.0 | 8.0 | 22.8 | 22.9 | 77.7 | 77.9 | 5.5 | 5.6 | 5.6 | 10.3 | 10.6 | | 16.6 | 15.9 | |
| 5-Aug-16 | Sunny | Moderate | 08:11 | 1 | | | 26.1 26.6 | | 8.0 7.9 | | 23.0 23.0 | | 78.1 76.8 | | 5.6 5.4 | | 5.0 | 10.8 8.4 | | | 15.2 6.9 | | |
| o riag io | Cumy | moderate | 00 | | Surface | 1.0 | 26.7 | 26.7 | 7.9 | 7.9 | 22.8 | 22.9 | 76.6 | 76.7 | 5.4 | 5.4 | 5.4 | 8.5 | 8.5 | | 6.7 | 6.8 | l |
| | | | | 5.7 | Middle | - | - 26.2 | - | 7.9 | - | 26.2 | - | - 76.2 | - | 5.4 | - | | - 8.8 | - | 8.7 | 7.3 | - | 7.0 |
| | | | | | Bottom | 4.7 | 26.1 | 26.2 | 7.9 | 7.9 | 25.9 | 26.1 | 76.5 | 76.4 | 5.4 | 5.4 | 5.4 | 8.8 | 8.8 | | 6.9 | 7.1 | |
| 8-Aug-16 | Sunny | Moderate | 10:10 | | Surface | 1.0 | 28.8 28.9 | 28.9 | 8.1 8.1 | 8.1 | 19.8 19.8 | 19.8 | 86.5 86.2 | 86.4 | 6.0 6.0 | 6.0 | 6.0 | 2.6 2.5 | 2.6 | | 2.3 2.5 | 2.4 | |
| | | | | 5.3 | Middle | - | - | - | - | - | - | - | - | - | - | - | 0.0 | - | - | 2.6 | - | - | 3.2 |
| | | | | | Bottom | 4.3 | 28.8 28.8 | 28.8 | 8.0 8.0 | 8.0 | 19.0 18.2 | 18.6 | 85.3 84.1 | 84.7 | 5.9 5.9 | 5.9 | 5.9 | 2.6 2.6 | 2.6 | | 4.0 3.8 | 3.9 | Ì |
| 10-Aug-16 | Rainy | Moderate | 12:01 | | Surface | 1.0 | 27.8 28.0 | 27.9 | 8.0 8.0 | 8.0 | 19.3 19.2 | 19.3 | 82.9 82.2 | 82.6 | 5.8 5.8 | 5.8 | | 2.4 2.4 | 2.4 | | 1.5 1.7 | 1.6 | |
| | | | | 5.3 | Middle | - | - | - | - | - | - | - | - | - | - | - | 5.8 | - | - | 2.5 | - | - | 1.6 |
| | | | | | Bottom | 4.3 | 27.6 27.5 | 27.6 | 7.9 7.9 | 7.9 | 23.7 | 24.1 | 80.3 79.7 | 80.0 | 5.5 5.6 | 5.6 | 5.6 | 2.5 2.6 | 2.6 | | 1.6 | 1.5 | |
| 12-Aug-16 | Fine | Moderate | 14:28 | | Surface | 1.0 | 29.0 | 28.8 | 8.1 | 8.0 | 24.5 8.4 | 8.9 | 88.1 | 87.6 | 6.4 | 6.4 | | 2.2 | 2.2 | | 3.2 | 3.1 | |
| | | | | 4.8 | Middle | _ | 28.6 | _ | 8.0 | _ | 9.4 | _ | 87.0 - | _ | 6.3 | - | 6.4 | 2.2 | _ | 2.3 | 3.0 | - | 3.2 |
| | | | | | Bottom | 3.8 | 27.2 | 27.5 | 7.8 | 7.9 | 19.2 | 19.4 | 86.7 | 86.4 | 6.3 | 6.2 | 6.2 | 2.4 | 2.4 | 2.0 | 3.3 | 3.2 | 0.2 |
| 15-Aug-16 | Cloudy | Moderate | 18:30 | 1 | | | 27.8 27.6 | | 7.9 8.2 | | 19.6 21.2 | | 86.1 96.0 | | 6.1 6.6 | | 0.2 | 2.4 4.2 | | | 3.1 5.6 | | |
| | 5.000, | | | | Surface | 1.0 | 27.4 | 27.5 | 8.2 | 8.2 | 21.8 | 21.5 | 96.3 | 96.2 | 6.7 | 6.6 | 6.6 | 4.3 | 4.3 | | 5.4 | 5.5 | l |
| | | | | 5.3 | Middle | - | - 27.2 | - | - 8.1 | - | - 24.1 | - | 94.5 | - | 6.6 | - | | 4.6 | - | 4.5 | - 5.5 | - | 5.4 |
| 17.1 | | | | | Bottom | 4.3 | 26.9 | 27.1 | 8.1 | 8.1 | 25.9 | 25.0 | 92.1 | 93.3 | 6.5 | 6.5 | 6.5 | 4.8 | 4.7 | | 5.0 | 5.3 | |
| 17-Aug-16 | Rainy | Moderate | 18:57 | | Surface | 1.0 | 26.5 26.5 | 26.5 | 8.0 8.0 | 8.0 | 26.9 26.9 | 26.9 | 92.1 88.2 | 90.2 | 6.4 6.1 | 6.3 | 6.3 | 3.4 3.4 | 3.4 | | 2.4 4.4 | 3.4 | |
| | | | | 5.4 | Middle | - | - | - | | - | | - | | - | | - | | - | - | 3.5 | - | - | 4.0 |
| | | | | | Bottom | 4.4 | 26.5 26.2 | 26.4 | 8.0 8.0 | 8.0 | 27.1 27.6 | 27.3 | 88.2 87.0 | 87.6 | 6.1 6.1 | 6.1 | 6.1 | 3.5 3.4 | 3.5 | | 4.6 4.5 | 4.6 | <u> </u> |
| 19-Aug-16 | Fine | Moderate | 07:13 | | Surface | 1.0 | 26.2 26.2 | 26.2 | 7.9 7.9 | 7.9 | 28.4 28.4 | 28.4 | 74.5 74.8 | 74.7 | 5.2 5.3 | 5.2 | | 7.2 7.4 | 7.3 | | 12.6 14.3 | 13.5 | |
| | | | | 5.2 | Middle | - | - | - | - | - | - | - | - | - | - | - | 5.2 | - | - | 7.6 | - | - | 16.5 |
| | | | | | Bottom | 4.2 | 26.1 | 26.2 | 7.9 7.9 | 7.9 | 28.6 | 28.5 | 73.5 | 73.7 | 5.2 | 5.2 | 5.2 | 7.8 | 7.9 | | 18.7 | 19.4 | İ |
| | | l | 1 | 1 | | | 26.2 | | 7.9 | <u> </u> | 28.5 | | 73.8 | <u> </u> | 5.2 | | | 7.9 | 1 | | 20.1 | | |

Remarks:

* DA: Depth-Averaged

** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at SR5 - Mid-FloodTide

| Date | Weather | Sea | Sampling | Water | Samp | ling | Temper | ature (°C) | | ρΗ | Salini | ty (ppt) | DO Satu | ration (%) | Dissol | ved Oxygen | (mg/L) | 1 | urbidity(NT | J) | Suspe | nded Solids | (mg/L) |
|-----------|-----------|-------------|----------|-----------|---------|------|--------------|------------|------------|---------|--------------|----------|--------------|------------|------------|------------|--------|------------|-------------|-----|------------|-------------|----------|
| | Condition | Condition** | Time | Depth (m) | Depth | (m) | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | DA* | Value | Average | DA* | Value | Average | DA* |
| 22-Aug-16 | Sunny | Moderate | 09:40 | | Surface | 1.0 | 27.8 28.0 | 27.9 | 7.9 7.9 | 7.9 | 22.5 21.6 | 22.1 | 76.3 76.6 | 76.5 | 5.3 5.3 | 5.3 | 5.3 | 5.9 5.7 | 5.8 | | 4.2 4.7 | 4.5 | |
| | | | | 5.3 | Middle | - | - | - | - | - | - | - | - | - | - | - | 0.0 | - | - | 6.1 | - | - | 4.7 |
| | | | | | Bottom | 4.3 | 27.9 27.5 | 27.7 | 7.9 7.8 | 7.9 | 21.0 24.6 | 22.8 | 75.5 75.8 | 75.7 | 5.3 5.3 | 5.3 | 5.3 | 6.3 6.2 | 6.3 | | 4.8 4.7 | 4.8 | |
| 24-Aug-16 | Sunny | Moderate | 11:24 | | Surface | 1.0 | 28.7 28.7 | 28.7 | 8.0 8.0 | 8.0 | 21.7 21.9 | 21.8 | 79.9 78.6 | 79.3 | 5.5 5.4 | 5.4 | 5.4 | 3.7 3.6 | 3.7 | | 4.3 4.1 | 4.2 | |
| | | | | 5.2 | Middle | 1 | | - | | - | 1 1 | - | - | - | | - | 5.4 | - | - | 3.8 | - | - | 4.1 |
| | | | | | Bottom | 4.2 | 28.4 28.5 | 28.4 | 8.0 8.0 | 8.0 | 24.2 24.1 | 24.1 | 78.2 77.6 | 77.9 | 5.3 5.3 | 5.3 | 5.3 | 3.8 3.9 | 3.9 | | 3.9 4.0 | 4.0 | |
| 26-Aug-16 | Sunny | Moderate | 13:29 | | Surface | 1.0 | 29.9 29.9 | 29.9 | 7.9 7.9 | 7.9 | 10.9 11.3 | 11.1 | 83.9 83.7 | 83.8 | 5.9 6.0 | 6.0 | 6.0 | 4.3 4.2 | 4.3 | | 3.1 2.8 | 3.0 | |
| | | | | 5.1 | Middle | ı | | - | | - | | - | - | - | | - | 0.0 | - | - | 4.4 | - | - | 3.4 |
| | | | | | Bottom | 4.1 | 29.9 29.8 | 29.8 | 7.9 7.9 | 7.9 | 12.6 12.8 | 12.7 | 80.2 78.4 | 79.3 | 5.6 5.6 | 5.6 | 5.6 | 4.5 4.4 | 4.5 | | 2.9 4.4 | 3.7 | |
| 29-Aug-16 | Sunny | Moderate | 17:15 | | Surface | 1.0 | 27.8 27.8 | 27.8 | 8.3 8.3 | 8.3 | 21.4 21.0 | 21.2 | 88.7 86.3 | 87.5 | 6.2 6.0 | 6.1 | 6.1 | 6.0 6.0 | 6.0 | | 6.8 6.1 | 6.5 | |
| | | | | 5.1 | Middle | ı | | - | | - | | - | - | - | | - | 0.1 | - | - | 6.1 | - | - | 6.8 |
| | | | | | Bottom | 4.1 | 27.7 27.6 | 27.6 | 8.3 8.3 | 8.3 | 22.1 22.9 | 22.5 | 84.7 86.3 | 85.5 | 5.9 6.0 | 6.0 | 6.0 | 6.0 6.2 | 6.1 | | 6.8 7.3 | 7.1 | |
| 31-Aug-16 | Sunny | Moderate | 19:25 | | Surface | 1.0 | 28.6 28.4 | 28.5 | 8.0 8.1 | 8.1 | 25.0 25.9 | 25.4 | 76.6 77.2 | 76.9 | 5.2 5.2 | 5.2 | 5.2 | 6.4 6.2 | 6.3 | _ | 5.0 6.2 | 5.6 | |
| | | | | 5.1 | Middle | - | - | - | | - | - | - | - | - | | - | 5.2 | - | - | 6.6 | - | - | 6.4 |
| | | | | | Bottom | 4.1 | 28.6 28.3 | 28.5 | 8.1 8.1 | 8.1 | 25.2 26.8 | 26.0 | 76.0 75.9 | 76.0 | 5.1 5.1 | 5.1 | 5.1 | 6.8 6.7 | 6.8 | | 7.3 7.0 | 7.2 | <u> </u> |

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

[^] As Tropical Cyclone Warning Signal No.3 or above was hoisted, water quality monitoring (except the monitoring locations named CSA, CS6, SR10B(N) and SR10A during Mid-Ebb Tide) was stopped according to the Contingency Plan for Impact Monitoring.

^{*} DA: Depth-Averaged

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at SR6 - Mid-EbbTide

| Date | Weather | Sea | Sampling | Water | Samp | ling | Tempera | ature (°C) | ţ. | Н | Salini | ty (ppt) | DO Satu | ration (%) | Dissol | ved Oxygen | (mg/L) | Т | urbidity(NT | U) | Suspe | nded Solids | (mg/L) د |
|-----------|-----------|-------------|----------|-----------|---------|------|--------------|------------|------------|---------|--------------|----------|--------------|------------|------------|------------|--------|------------|-------------|----------|--------------|-------------|----------|
| | Condition | Condition** | Time | Depth (m) | Depth | (m) | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | DA* | Value | Average | DA* | Value | Average | DA* |
| 1-Aug-16^ | Cloudy | Moderate | - | | Surface | - | - | - | - | - | - | - | - | - | - | - | | - | - | | - | - | |
| | | | | - | Middle | - | - | - | - | - | - | - | - | - | - | - | - | - | - | <u>-</u> | - | - | <u>.</u> |
| | | | | | Bottom | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | - | - | |
| 3-Aug-16 | Cloudy | Moderate | 12:01 | | Surface | 1.0 | 26.0 | 26.0 | 7.9 | 7.9 | 26.6 | 26.6 | 80.5 | 80.7 | 5.6 | 5.6 | | 7.7 | 7.7 | | 8.7 | 8.5 | |
| | | | | 5.1 | Middle | - | 26.0 | - | 7.9 | - | 26.7 | - | 80.8 | - | 5.6 | - | 5.6 | 7.7 | - | 7.8 | 8.2 | - | 10.0 |
| | | | | | Bottom | 4.1 | 25.6 | 25.8 | 7.8 | 7.9 | 27.9 | 27.9 | 80.0 | 80.3 | 5.6 | 5.6 | 5.6 | 7.9 | 7.8 | | 11.0 | 11.4 | |
| 5-Aug-16 | Sunny | Moderate | 13:22 | | Surface | 1.0 | 26.0 | 27.7 | 7.9 8.0 | 8.0 | 27.8 | 22.5 | 73.8 | 73.8 | 5.6 5.1 | 5.1 | | 7.7 3.4 | 3.5 | | 4.4 | 3.3 | |
| | | | | 4.4 | Middle | _ | 27.6 | - | 8.0 | - | 22.7 | _ | 73.7 | _ | 5.2 | _ | 5.1 | 3.5 | _ | 3.7 | 2.1 | - | 4.6 |
| | | | | | Bottom | 3.4 | 27.7 | 27.2 | 8.0 | 8.0 | 24.0 | 24.7 | 73.4 | 73.2 | 5.1 | 5.1 | 5.1 | 3.9 | 3.9 | | 6.3 | 5.8 | |
| 8-Aug-16 | Sunny | Moderate | 14:58 | <u> </u> | Surface | 1.0 | 26.7 29.4 | 29.3 | 8.0 | 8.0 | 25.3 19.5 | 19.6 | 72.9 98.3 | 98.7 | 5.1 6.9 | 6.8 | | 3.8 2.6 | 2.6 | | 5.3 6.9 | 6.3 | |
| | | | | 4.3 | Middle | - | 29.2 | - | 8.0 | - | 19.6 - | - | 99.0 | _ | 6.8 | _ | 6.8 | 2.5 | - | 2.7 | 5.7 | - | 5.2 |
| | | | | | Bottom | 3.3 | 29.1 | 28.8 | 8.0 | 8.0 | 20.2 | 20.5 | 97.7 | 97.7 | 6.8 | 6.8 | 6.8 | 2.8 | 2.8 | | 4.7 | 4.1 | |
| 10-Aug-16 | Rainy | Moderate | 16:21 | | Surface | 1.0 | 28.5 27.4 | 27.4 | 8.0 | 8.0 | 20.8 22.3 | 21.5 | 97.6 78.3 | 78.4 | 6.7 5.5 | 5.5 | | 2.7 1.9 | 2.0 | | 3.5 0.9 | 1.0 | \vdash |
| | | | | 4.2 | Middle | - | 27.4 | - | 8.0 | - | 20.6 | - | 78.5 - | - | 5.5 - | - | 5.5 | 2.1 | - | 2.2 | 1.0 | - | 1.2 |
| | | | | 4.2 | Bottom | 3.2 | 27.1 | 27.1 | 7.9 | 7.9 | 26.1 | 26.0 | 78.4 | 77.8 | 5.4 | 5.4 | 5.4 | 2.4 | 2.3 | 2.2 | 1.4 | 1.4 | 1.2 |
| 40 Aug 40 | Daine | Madazata | 00.55 | | DOMOIT | 3.2 | 27.1 | | 7.9 | 7.5 | 25.8 | 20.0 | 77.1 | 77.0 | 5.4 | 3.4 | 3.4 | 2.2 | 2.3 | | 1.3 | 1.4 | |
| 12-Aug-16 | Rainy | Moderate | 08:55 | | Surface | 1.0 | 27.8 27.8 | 27.8 | 8.0 8.0 | 8.0 | 15.3 15.6 | 15.4 | 79.4 77.9 | 78.7 | 5.7 5.5 | 5.6 | 5.6 | 1.1 1.1 | 1.1 | | 2.1 2.3 | 2.2 | |
| | | | | 5.0 | Middle | - | | - | - | - | | - | | - | - | - | | - | - | 1.2 | - | - | 2.4 |
| | | | | | Bottom | 4.0 | 27.1 26.9 | 27.0 | 7.9 7.9 | 7.9 | 22.7 23.6 | 23.1 | 79.3 76.2 | 77.8 | 5.6 5.5 | 5.5 | 5.5 | 1.3 1.1 | 1.2 | | 2.5 2.7 | 2.6 | |
| 15-Aug-16 | Cloudy | Moderate | 11:38 | | Surface | 1.0 | 27.6 27.5 | 27.5 | 8.1 8.1 | 8.1 | 21.8 21.8 | 21.8 | 91.8 92.1 | 92.0 | 6.4 6.4 | 6.4 | 6.4 | 3.5 3.6 | 3.6 | | 4.1 4.2 | 4.2 | |
| | | | | 4.2 | Middle | - | - | - | - | - | - | - | - | - | | - | | - | - | 3.7 | - | - | 4.8 |
| | | | | | Bottom | 3.2 | 26.5 26.1 | 26.3 | 8.0 8.0 | 8.0 | 26.6 27.5 | 27.0 | 88.7 87.5 | 88.1 | 6.2 6.2 | 6.2 | 6.2 | 3.8 3.7 | 3.8 | | 5.4 5.1 | 5.3 | |
| 17-Aug-16 | Rainy | Moderate | 13:20 | | Surface | 1.0 | 26.4 26.4 | 26.4 | 8.0 8.0 | 8.0 | 26.8 26.7 | 26.7 | 81.6 82.0 | 81.8 | 5.7 5.7 | 5.7 | 5.7 | 2.5 2.5 | 2.5 | | 4.4 5.0 | 4.7 |] |
| | | | | 4.0 | Middle | - | - | - | - | - | - | - | - | - | - | - | J., | - | - | 2.6 | - | - | 4.5 |
| | | | | | Bottom | 3.0 | 26.3 26.1 | 26.2 | 8.0 8.0 | 8.0 | 27.8 27.4 | 27.6 | 82.2 80.9 | 81.6 | 5.7 5.7 | 5.7 | 5.7 | 2.6 2.6 | 2.6 | | 5.0 3.4 | 4.2 | |
| 19-Aug-16 | Fine | Moderate | 12:17 | | Surface | 1.0 | 26.1 26.5 | 26.3 | 8.1 8.1 | 8.1 | 29.0 28.3 | 28.6 | 74.8 75.7 | 75.3 | 5.1 5.2 | 5.2 | 5.2 | 7.6 7.5 | 7.6 | | 12.1 11.6 | 11.9 | |
| | | | | 4.4 | Middle | - | - | - | - | - | - | - | | - | | - | J.Z | - | - | 7.8 | - | - | 11.6 |
| | | | | | Bottom | 3.4 | 26.5 26.0 | 26.3 | 8.1 8.1 | 8.1 | 28.1 29.3 | 28.7 | 74.3 73.9 | 74.1 | 5.1 5.1 | 5.1 | 5.1 | 7.8 7.9 | 7.9 | | 11.1 11.5 | 11.3 | |

Remarks:

* DA: Depth-Averaged

** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at SR6 - Mid-EbbTide

| Date | Weather | Sea | Sampling | Water | Samp | ling | Temper | ature (°C) | | Н | Salini | ty (ppt) | DO Satu | ration (%) | Dissol | ved Oxygen | (mg/L) | 1 | urbidity(NTl | J) | Suspe | nded Solids | s (mg/L) |
|-----------|-----------|-------------|----------|-----------|---------|------|--------------|------------|------------|---------|--------------|----------|--------------|------------|------------|------------|--------|------------|--------------|-----|------------|-------------|----------|
| | Condition | Condition** | Time | Depth (m) | Depth | (m) | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | DA* | Value | Average | DA* | Value | Average | DA* |
| 22-Aug-16 | Sunny | Moderate | 14:17 | | Surface | 1.0 | 28.9 28.7 | 28.8 | 8.0 8.0 | 8.0 | 21.0 21.0 | 21.0 | 77.4 78.3 | 77.9 | 5.3 5.3 | 5.3 | 5.3 | 4.3 4.1 | 4.2 | | 7.6 7.4 | 7.5 | |
| | | | | 4.1 | Middle | - | - | - | - | - | - | - | - | - | - | - | 0.0 | - | - | 4.4 | - | - | 7.9 |
| | | | | | Bottom | 3.1 | 28.6 28.7 | 28.6 | 7.9 7.9 | 7.9 | 23.3 23.5 | 23.4 | 77.4 77.5 | 77.5 | 5.3 5.3 | 5.3 | 5.3 | 4.6 4.5 | 4.6 | | 8.0 8.5 | 8.3 | |
| 24-Aug-16 | Sunny | Moderate | 15:51 | | Surface | 1.0 | 29.5 29.6 | 29.6 | 8.1 8.1 | 8.1 | 18.5 18.5 | 18.5 | 85.3 84.9 | 85.1 | 5.9 5.8 | 5.9 | 5.9 | 3.4 3.5 | 3.5 | | 2.3 2.0 | 2.2 | |
| | | | | 5.0 | Middle | 1 | | - | | - | | - | | - | | - | 5.9 | - | - | 3.5 | - | - | 2.6 |
| | | | | | Bottom | 4.0 | 28.3 28.7 | 28.5 | 8.0 8.0 | 8.0 | 23.1 22.7 | 22.9 | 82.9 84.7 | 83.8 | 5.7 5.8 | 5.7 | 5.7 | 3.5 3.4 | 3.5 | | 2.8 3.2 | 3.0 | |
| 26-Aug-16 | Sunny | Moderate | 08:08 | | Surface | 1.0 | 29.5 29.5 | 29.5 | 7.9 7.9 | 7.9 | 15.2 14.2 | 14.7 | 80.3 80.5 | 80.4 | 5.6 5.6 | 5.6 | 5.6 | 4.0 3.9 | 4.0 | | 4.3 3.9 | 4.1 | |
| | | | | 4.3 | Middle | i | - | - | - | - | | - | | - | | - | 3.0 | - | - | 4.1 | - | - | 4.3 |
| | | | | | Bottom | 3.3 | 29.4 29.3 | 29.4 | 7.9 7.9 | 7.9 | 17.4 17.6 | 17.5 | 78.5 78.1 | 78.3 | 5.5 5.5 | 5.5 | 5.5 | 4.1 4.1 | 4.1 | | 3.8 5.2 | 4.5 | |
| 29-Aug-16 | Sunny | Moderate | 11:59 | | Surface | 1.0 | 27.8 27.7 | 27.7 | 8.2 8.2 | 8.2 | 18.6 18.8 | 18.7 | 82.7 81.3 | 82.0 | 5.9 5.8 | 5.8 | 5.8 | 3.7 3.8 | 3.8 | | 8.0 8.4 | 8.2 | |
| | | | | 5.1 | Middle | ı | - | - | - | - | | - | | - | | - | 3.6 | - | - | 3.8 | - | - | 7.6 |
| | | | | | Bottom | 4.1 | 27.7 27.6 | 27.6 | 8.2 8.2 | 8.2 | 19.1 19.3 | 19.2 | 82.0 79.9 | 81.0 | 5.8 5.7 | 5.7 | 5.7 | 3.8 3.8 | 3.8 | | 7.0 6.7 | 6.9 | |
| 31-Aug-16 | Sunny | Moderate | 13:09 | | Surface | 1.0 | 28.2 28.4 | 28.3 | 8.1 8.1 | 8.1 | 26.3 26.2 | 26.2 | 78.4 78.3 | 78.4 | 5.2 5.2 | 5.2 | 5.2 | 4.6 4.7 | 4.7 | _ | 4.3 5.3 | 4.8 | |
| | | | | 3.9 | Middle | - | - | - | - | - | | - | | - | | - | 5.2 | - | - | 4.8 | - | - | 5.1 |
| | | | | | Bottom | 2.9 | 28.1 28.2 | 28.2 | 8.1 8.1 | 8.1 | 27.5 27.4 | 27.5 | 77.3 77.6 | 77.5 | 5.2 5.2 | 5.2 | 5.2 | 4.9 4.9 | 4.9 | | 5.0 5.6 | 5.3 | |

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

[^] As Tropical Cyclone Warning Signal No.3 or above was hoisted, water quality monitoring (except the monitoring locations named CSA, CS6, SR10B(N) and SR10A during Mid-Ebb Tide) was stopped according to the Contingency Plan for Impact Monitoring.

^{*} DA: Depth-Averaged

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at SR6 - Mid-FloodTide

| Date | Weather | Sea | Sampling | Water | Sampl | ing | Tempera | ature (°C) | ī | Н | Salini | ty (ppt) | DO Satu | ration (%) | Dissol | ed Oxygen | (mg/L) | Т | urbidity(NT | U) | Suspe | nded Solids | (mg/L) |
|-----------|-----------|-------------|----------|-----------|---------|-----|--------------|------------|------------|---------|--------------|----------|--------------|------------|------------|-----------|--------|------------|-------------|----------|-------------|-------------|----------|
| | Condition | Condition** | Time | Depth (m) | Depth | (m) | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | DA* | Value | Average | DA* | Value | Average | DA* |
| 1-Aug-16^ | Cloudy | Moderate | - | | Surface | | | - | - | - | | - | - | - | | | | - | - | | - | - | |
| | | | | - | Middle | - | - | - | - | - | - | - | - | - | - | - | - | - | - | <u>-</u> | - | - | <u> </u> |
| | | | | | Bottom | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | - | - | |
| 3-Aug-16 | Cloudy | Moderate | 07:09 | | Surface | 1.0 | 26.4 | 26.4 | 8.0 | 8.0 | 21.7 | 21.6 | 80.4 | 80.8 | 5.7 | 5.8 | | 8.0 | 8.1 | | 8.0 | 7.9 | |
| | | | | 5.1 | Middle | 1.0 | 26.4 | - | 8.0 | - | 21.4 | - | 81.1 | - | 5.8 | 0.0 | 5.8 | 8.1 | 0.1 | 8.1 | 7.8 | - | 8.8 |
| | | | | 5.1 | | - | 26.1 | | 7.9 | | 24.2 | | 80.3 | | 5.7 | | | 8.0 | - | 0.1 | 9.3 | | 0.0 |
| F A 4C | Curani | Moderate | 09:04 | | Bottom | 4.1 | 26.3 26.4 | 26.2 | 8.0 7.9 | 7.9 | 23.0 25.1 | 23.6 | 80.9 74.6 | 80.6 | 5.8 5.3 | 5.7 | 5.7 | 8.1 7.2 | 8.1 | | 9.9 | 9.6 | |
| 5-Aug-16 | Sunny | Moderate | 09:04 | | Surface | 1.0 | 26.5 | 26.5 | 7.9 | 7.9 | 24.9 | 25.0 | 74.1 | 74.4 | 5.3 | 5.3 | 5.3 | 7.2 | 7.3 | | 9.8 | 9.3 | |
| | | | | 4.5 | Middle | - | - | - | - | - | - | - | - | - | - | - | | - | - | 7.4 | - | - | 9.6 |
| | | | | | Bottom | 3.5 | 26.2 26.1 | 26.1 | 7.8 7.8 | 7.8 | 26.3 26.4 | 26.3 | 73.5 73.3 | 73.4 | 5.2 5.2 | 5.2 | 5.2 | 7.5 7.5 | 7.5 | | 9.9 9.7 | 9.8 | |
| 8-Aug-16 | Sunny | Moderate | 11:07 | | Surface | 1.0 | 28.8 27.2 | 28.0 | 8.0 8.0 | 8.0 | 21.3 25.4 | 23.4 | 76.3 76.8 | 76.6 | 5.2 5.3 | 5.3 | 5.0 | 4.2 4.3 | 4.3 | | 4.1 3.0 | 3.6 | |
| | | | | 4.5 | Middle | - | - | - | - | - | - | - | - | - | - | - | 5.3 | - | - | 4.4 | - | - | 4.3 |
| | | | | | Bottom | 3.5 | 28.7 | 27.8 | 8.0 8.0 | 8.0 | 25.8 26.5 | 26.2 | 75.2 74.6 | 74.9 | 5.2 5.2 | 5.2 | 5.2 | 4.4 4.4 | 4.4 | | 5.8 | 5.0 | |
| 10-Aug-16 | Rainy | Moderate | 12:54 | <u> </u> | Surface | 1.0 | 28.2 | 28.1 | 8.0 | 8.0 | 18.5 | 18.5 | 84.8 | 84.8 | 6.0 | 6.0 | | 2.9 | 2.9 | | 2.5 | 2.4 | |
| | | | | 4.4 | Middle | _ | 28.0 | _ | 8.0 | _ | 18.6 | _ | 84.7 | _ | 5.9 - | _ | 6.0 | 2.8 | _ | 3.1 | 2.3 | _ | 2.5 |
| | | | | | Bottom | 3.4 | 28.0 | 27.6 | 7.9 | 7.9 | 22.3 | 24.0 | 84.4 | 84.1 | 5.9 | 5.9 | 5.9 | 3.2 | 3.3 | | 2.3 | 2.6 | |
| 12-Aug-16 | Fine | Moderate | 13:59 | 1 | | | 27.3 28.9 | | 7.9 8.1 | | 25.7 11.4 | | 83.7 84.2 | | 5.9 5.8 | | 5.5 | 3.3 2.4 | | | 2.8 3.5 | | |
| | | | | | Surface | 1.0 | 28.5 | 28.7 | 8.0 | 8.1 | 11.4 | 11.4 | 84.3 | 84.3 | 5.7 | 5.8 | 5.8 | 2.3 | 2.4 | | 3.2 | 3.4 | |
| | | | | 5.1 | Middle | - | 28.3 | - | 7.8 | - | 27.3 | - | 80.2 | - | - 5.6 | - | | 2.5 | - | 2.4 | 2.8 | - | 3.2 |
| | | | | | Bottom | 4.1 | 27.4 | 27.8 | 8.0 | 7.9 | 27.8 | 27.6 | 78.5 | 79.4 | 5.7 | 5.7 | 5.7 | 2.3 | 2.4 | | 2.9 | 2.9 | <u> </u> |
| 15-Aug-16 | Cloudy | Moderate | 17:35 | | Surface | 1.0 | 27.1 27.4 | 27.3 | 8.1 8.1 | 8.1 | 21.8 21.8 | 21.8 | 87.2 87.9 | 87.6 | 6.1 6.0 | 6.1 | 6.1 | 3.6 3.4 | 3.5 | | 7.5 6.8 | 7.2 | |
| | | | | 4.2 | Middle | - | - | - | - | - | - | - | - | - | - | - | 0 | - | - | 3.6 | - | - | 7.1 |
| | | | | | Bottom | 3.2 | 27.4 26.7 | 27.0 | 8.1 8.0 | 8.1 | 23.1 26.0 | 24.6 | 85.1 85.8 | 85.5 | 6.0 5.9 | 6.0 | 6.0 | 3.7 3.7 | 3.7 | | 7.2 6.7 | 7.0 | |
| 17-Aug-16 | Rainy | Moderate | 18:03 | | Surface | 1.0 | 26.6 26.6 | 26.6 | 8.0 8.0 | 8.0 | 26.8 26.8 | 26.8 | 86.5 87.1 | 86.8 | 6.0 6.0 | 6.0 | | 5.3 5.4 | 5.4 | | 3.9 4.0 | 4.0 | |
| | | | | 4.3 | Middle | - | - | - | - | - | - | - | - | - | - | - | 6.0 | - | - | 5.4 | - | - | 4.2 |
| | | | | | Bottom | 3.3 | 26.7 | 26.7 | 8.0 | 8.0 | 27.1 | 27.1 | 85.7 | 86.1 | 5.9 | 6.0 | 6.0 | 5.2 | 5.3 | | 4.3 | 4.4 | |
| 19-Aug-16 | Fine | Moderate | 08:10 | 1 | Surface | 1.0 | 26.7 26.1 | 26.1 | 8.0 | 8.0 | 27.1 28.6 | 28.6 | 86.5 76.7 | 76.6 | 6.0 5.4 | 5.4 | | 5.3 8.3 | 8.4 | | 4.5 15.8 | 15.7 | |
| | | | | 4.4 | | 1.0 | 26.1 | | 8.0 | | 28.6 | | 76.4 | | 5.4 | 5.7 | 5.4 | 8.4 | | 0.6 | 15.5 | | 15.0 |
| | | | | 4.4 | Middle | - | 26.1 | - | - 8.0 | - | 28.6 | - | 74.4 | - | 5.2 | - | | 8.7 | - | 8.6 | 16.3 | - | 15.9 |
| | | | | | Bottom | 3.4 | 26.1 | 26.1 | 8.0 | 8.0 | 28.7 | 28.7 | 74.6 | 74.5 | 5.2 | 5.2 | 5.2 | 8.6 | 8.7 | | 15.8 | 16.1 | |

Remarks:

* DA: Depth-Averaged

** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at SR6 - Mid-FloodTide

| Date | Weather | Sea | Sampling | Water | Samp | ling | Temper | ature (°C) | | ρΗ | Salini | ty (ppt) | DO Satu | ration (%) | Dissol | ved Oxygen | (mg/L) | 1 | urbidity(NT | J) | Suspe | nded Solids | (mg/L) |
|-----------|-----------|-------------|----------|-----------|---------|------|--------------|------------|------------|---------|--------------|----------|--------------|------------|------------|------------|--------|------------|-------------|-----|------------|-------------|----------|
| | Condition | Condition** | Time | Depth (m) | Depth | (m) | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | DA* | Value | Average | DA* | Value | Average | DA* |
| 22-Aug-16 | Sunny | Moderate | 10:36 | | Surface | 1.0 | 27.9 27.9 | 27.9 | 7.9 7.9 | 7.9 | 23.4 22.9 | 23.1 | 74.9 75.2 | 75.1 | 5.2 5.2 | 5.2 | 5.2 | 7.4 7.3 | 7.4 | | 8.3 9.4 | 8.9 | |
| | | | | 4.3 | Middle | - | - | - | - | - | - | - | - | - | - | - | 0.2 | - | - | 7.6 | - | - | 9.3 |
| | | | | | Bottom | 3.3 | 27.9 27.7 | 27.8 | 7.9 7.9 | 7.9 | 23.3 23.8 | 23.6 | 74.2 74.8 | 74.5 | 5.1 5.2 | 5.1 | 5.1 | 7.6 7.7 | 7.7 | | 9.3 9.9 | 9.6 | |
| 24-Aug-16 | Sunny | Moderate | 11:57 | | Surface | 1.0 | 29.6 29.5 | 29.6 | 8.0 8.0 | 8.0 | 17.9 18.2 | 18.1 | 80.2 77.8 | 79.0 | 5.5 5.3 | 5.4 | 5.4 | 4.4 4.4 | 4.4 | | 3.4 2.5 | 3.0 | |
| | | | | 4.9 | Middle | 1 | | • | | - | | - | - | - | | - | 5.4 | - | - | 4.5 | - | - | 3.1 |
| | | | | | Bottom | 3.9 | 28.2 28.4 | 28.3 | 7.9 8.0 | 8.0 | 24.2 23.5 | 23.9 | 77.4 78.4 | 77.9 | 5.3 5.4 | 5.3 | 5.3 | 4.4 4.6 | 4.5 | | 3.2 3.1 | 3.2 | |
| 26-Aug-16 | Sunny | Moderate | 12:58 | | Surface | 1.0 | 29.4 29.5 | 29.4 | 7.9 7.9 | 7.9 | 17.9 17.6 | 17.7 | 77.8 80.2 | 79.0 | 5.5 5.6 | 5.5 | 5.5 | 4.2 4.3 | 4.3 | | 4.3 5.5 | 4.9 | |
| | | | | 4.4 | Middle | - | - | - | - | - | - | - | - | - | - | - | 5.5 | - | - | 4.4 | - | - | 5.0 |
| | | | | | Bottom | 3.4 | 29.8 29.4 | 29.6 | 8.0 7.9 | 7.9 | 17.3 17.2 | 17.3 | 78.0 78.0 | 78.0 | 5.4 5.5 | 5.5 | 5.5 | 4.5 4.5 | 4.5 | | 5.7 4.3 | 5.0 | |
| 29-Aug-16 | Sunny | Moderate | 16:46 | | Surface | 1.0 | 27.8 28.0 | 27.9 | 8.3 8.3 | 8.3 | 26.4 26.4 | 26.4 | 87.3 86.9 | 87.1 | 5.9 5.9 | 5.9 | 5.9 | 3.7 3.7 | 3.7 | | 6.5 6.6 | 6.6 | |
| | | | | 5.1 | Middle | ı | | - | | - | | - | - | - | | - | 3.5 | - | - | 3.8 | - | - | 6.2 |
| | | | | | Bottom | 4.1 | 27.7 27.8 | 27.7 | 8.2 8.2 | 8.2 | 27.8 27.9 | 27.8 | 86.9 84.1 | 85.5 | 5.9 5.7 | 5.8 | 5.8 | 3.9 3.7 | 3.8 | | 5.7 5.8 | 5.8 | |
| 31-Aug-16 | Sunny | Moderate | 18:35 | | Surface | 1.0 | 28.6 28.6 | 28.6 | 8.0 8.0 | 8.0 | 24.0 24.0 | 24.0 | 75.5 75.8 | 75.7 | 5.1 5.2 | 5.1 | 5.1 | 5.2 5.1 | 5.2 | _ | 5.1 6.1 | 5.6 | |
| | | | | 4.1 | Middle | - | - | - | - | - | - | - | - | - | - | - | J.1 | - | - | 5.3 | - | - | 6.5 |
| | | | | | Bottom | 3.1 | 28.6 28.6 | 28.6 | 8.0 8.0 | 8.0 | 24.3 24.3 | 24.3 | 75.2 75.1 | 75.2 | 5.1 5.1 | 5.1 | 5.1 | 5.3 5.4 | 5.4 | | 6.5 8.2 | 7.4 | <u> </u> |

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

[^] As Tropical Cyclone Warning Signal No.3 or above was hoisted, water quality monitoring (except the monitoring locations named CSA, CS6, SR10B(N) and SR10A during Mid-Ebb Tide) was stopped according to the Contingency Plan for Impact Monitoring.

^{*} DA: Depth-Averaged

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at SR7 - Mid-EbbTide

| Date | Weather | Sea | Sampling | Water | Samp | ling | Tempera | ature (°C) | ţ. | Н | Salini | ty (ppt) | DO Satu | ration (%) | Dissol | ved Oxygen | (mg/L) | Т | urbidity(NT | U) | Suspe | ended Solids | (mg/L) د |
|-----------|-----------|-------------|----------|-----------|----------|------|--------------|------------|------------|---------|--------------|----------|--------------|------------|------------|------------|--------|------------|-------------|----------|-------------|--------------|----------|
| | Condition | Condition** | Time | Depth (m) | Depth | (m) | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | DA* | Value | Average | DA* | Value | Average | DA* |
| 1-Aug-16^ | Cloudy | Moderate | - | | Surface | - | - | - | - | - | - | - | - | - | - | - | | - | - | | - | - | |
| | | | | - | Middle | - | - | - | - | - | - | - | - | - | - | - | - | - | - | <u>-</u> | - | - | <u>.</u> |
| | | | | | Bottom | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | - | - | |
| 3-Aug-16 | Cloudy | Moderate | 13:13 | | Surface | 1.0 | 26.1 | 26.1 | 8.0 | 8.0 | 22.1 | 22.2 | 79.5 | 79.9 | 5.7 | 5.7 | | 8.2 | 8.2 | | 10.1 | 9.7 | |
| | | | | 5.1 | Middle | - | 26.0 | - | 8.0 | - | 22.4 | - | 80.3 | - | 5.7 | - | 5.7 | 8.1 | - | 8.4 | 9.2 | - | 11.2 |
| | | | | | Bottom | 4.1 | 25.9 | 25.9 | 8.0 | 8.0 | 23.6 | 23.3 | 78.9 | 78.8 | 5.6 | 5.6 | 5.6 | 8.4 | 8.5 | | 13.3 | 12.7 | |
| 5-Aug-16 | Sunny | Moderate | 14:51 | | Surface | 1.0 | 25.9 27.2 | 27.3 | 7.9 | 7.9 | 23.0 23.6 | 23.4 | 78.6 73.6 | 73.5 | 5.6 5.1 | 5.1 | | 8.5 5.3 | 5.3 | | 12.1 4.7 | 5.2 | |
| | | | | 4.6 | Middle | _ | 27.5 - | _ | 7.9 | - | 23.2 | _ | 73.4 | _ | 5.1 - | _ | 5.1 | 5.2 | - | 5.4 | 5.6 | | 5.4 |
| | | | | | Bottom | 3.6 | 26.3 | 26.5 | 7.9 | 7.9 | 26.5 | 26.1 | 72.2 | 72.5 | 5.1 | 5.1 | 5.1 | 5.5 | 5.5 | | 4.7 | 5.6 | " |
| 8-Aug-16 | Sunny | Moderate | 16:28 | | Surface | 1.0 | 26.7 28.4 | 28.5 | 7.9 7.9 | 7.9 | 25.6 21.5 | 20.5 | 72.8 94.1 | 93.8 | 5.1 6.5 | 6.5 | 0 | 5.5 2.7 | 2.7 | | 6.4 2.0 | 2.4 | |
| | | | | 4.2 | Middle | - | 28.6 | - | 7.9 | - | 19.5 - | - | 93.4 | - | 6.5 - | - | 6.5 | 2.6 | | 2.8 | 2.7 | | 4.0 |
| | | | | | Bottom | 3.2 | 28.3 | 28.5 | 7.8 | 7.9 | 20.5 | 20.7 | 93.2 | 92.6 | 6.4 | 6.4 | 6.4 | 2.9 | 2.9 | | 4.9 | 5.5 | |
| 10-Aug-16 | Rainy | Moderate | 17:51 | | Surface | 1.0 | 28.6 27.9 | 28.0 | 7.9 8.0 | 8.0 | 20.8 | 20.3 | 92.0 87.5 | 87.5 | 6.4 6.1 | 6.1 | | 2.8 1.2 | 1.3 | | 6.0 1.2 | 1.1 | \vdash |
| | | | | 4.3 | Middle | - | 28.0 | - | 8.0 | - | 20.3 | - | 87.5 - | - | 6.1 | 0.1 | 6.1 | 1.3 | - | 1.4 | 1.0 | - | 1.2 |
| | | | | 4.5 | Bottom | 3.3 | 28.0 | 27.9 | 8.0 | 8.0 | - 22.9 | 23.1 | 88.6 | 88.5 | 6.1 | 6.1 | 6.1 | 1.4 | 1.5 | 1.4 | 1.3 | 1.2 | 1.2 |
| 10.1 | | | 07.40 | | DOLLOTTI | 3.3 | 27.8 | 21.9 | 8.0 | 0.0 | 23.3 | 23.1 | 88.4 | 00.0 | 6.1 | 0.1 | 0.1 | 1.5 | 1.5 | | 1.1 | 1.2 | |
| 12-Aug-16 | Rainy | Moderate | 07:46 | | Surface | 1.0 | 27.9 28.0 | 28.0 | 8.0 8.0 | 8.0 | 18.7 18.4 | 18.6 | 82.6 79.4 | 81.0 | 5.6 5.6 | 5.6 | 5.6 | 1.5 1.4 | 1.5 | | 2.9 2.5 | 2.7 | |
| | | | | 5.5 | Middle | - | - | - | - | - | - | - | - | - | - | - | | - | - | 1.5 | - | - | 2.6 |
| | | | | | Bottom | 4.5 | 26.6 27.3 | 27.0 | 7.9 7.9 | 7.9 | 25.9 26.2 | 26.1 | 76.4 78.6 | 77.5 | 5.3 5.6 | 5.4 | 5.4 | 1.4 1.5 | 1.5 | | 2.3 2.7 | 2.5 | |
| 15-Aug-16 | Cloudy | Moderate | 10:01 | | Surface | 1.0 | 26.8 27.0 | 26.9 | 8.0 8.0 | 8.0 | 24.8 23.3 | 24.0 | 75.6 74.7 | 75.2 | 5.4 5.3 | 5.4 | 5.4 | 2.8 2.7 | 2.8 | | 3.9 4.7 | 4.3 |] |
| | | | | 4.3 | Middle | - | - | - | - | - | - | - | - | - | - | - | · · · | - | - | 3.0 | - | - | 4.4 |
| | | | | | Bottom | 3.3 | 25.6 27.0 | 26.3 | 7.9 8.0 | 8.0 | 29.3 29.5 | 29.4 | 74.0 75.0 | 74.5 | 5.3 5.2 | 5.3 | 5.3 | 3.2 3.1 | 3.2 | | 5.0 3.8 | 4.4 | |
| 17-Aug-16 | Rainy | Moderate | 11:56 | | Surface | 1.0 | 25.9 26.0 | 26.0 | 8.0 8.0 | 8.0 | 28.1 28.0 | 28.0 | 81.6 83.4 | 82.5 | 5.7 5.8 | 5.7 | 5.7 | 3.5 3.3 | 3.4 | | 2.8 2.1 | 2.5 | |
| | | | | 4.2 | Middle | - | - | - | - | - | - | - | | - | - | - | ··· | - | - | 3.5 | - | - | 3.5 |
| | | | | | Bottom | 3.2 | 25.9 25.7 | 25.8 | 8.0 7.9 | 8.0 | 28.3 28.8 | 28.6 | 80.9 81.3 | 81.1 | 5.6 5.7 | 5.7 | 5.7 | 3.5 3.6 | 3.6 | | 4.0 4.9 | 4.5 | |
| 19-Aug-16 | Fine | Moderate | 13:52 | | Surface | 1.0 | 26.7 26.7 | 26.7 | 8.1 8.1 | 8.1 | 26.4 26.1 | 26.3 | 80.4 80.6 | 80.5 | 5.6 5.6 | 5.6 | 5.6 | 2.8 2.7 | 2.8 | | 3.4 3.8 | 3.6 | |
| | | | | 4.4 | Middle | - | - | - | - | - | - | - | - | - | - | - | 5.0 | - | - | 2.9 | - | - | 3.7 |
| | | | | | Bottom | 3.4 | 26.7 26.5 | 26.6 | 8.1 8.0 | 8.0 | 26.3 27.1 | 26.7 | 79.8 78.5 | 79.2 | 5.5 5.4 | 5.5 | 5.5 | 2.9 2.9 | 2.9 | | 4.1 3.2 | 3.7 | |

Remarks:

* DA: Depth-Averaged

** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at SR7 - Mid-EbbTide

| Date | Weather | Sea | Sampling | Water | Samp | ling | Temper | ature (°C) | | ρΗ | Salini | ty (ppt) | DO Satu | ration (%) | Dissol | ved Oxygen | (mg/L) | 1 | urbidity(NT | J) | Suspe | nded Solids | s (mg/L) |
|-----------|-----------|-------------|----------|-----------|---------|------|--------------|------------|------------|---------|--------------|----------|--------------|------------|------------|------------|--------|------------|-------------|-----|------------|-------------|----------|
| | Condition | Condition** | Time | Depth (m) | Depth | (m) | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | DA* | Value | Average | DA* | Value | Average | DA* |
| 22-Aug-16 | Sunny | Moderate | 15:53 | | Surface | 1.0 | 28.4 28.6 | 28.5 | 8.0 8.0 | 8.0 | 22.2 21.7 | 21.9 | 75.8 76.1 | 76.0 | 5.3 5.3 | 5.3 | 5.3 | 5.2 5.0 | 5.1 | | 5.4 5.5 | 5.5 | |
| | | | | 4.2 | Middle | - | - | - | - | - | - | - | - | - | - | - | 0.0 | - | - | 5.4 | - | - | 5.4 |
| | | | | | Bottom | 3.2 | 27.6 28.1 | 27.9 | 7.9 7.9 | 7.9 | 24.4 24.2 | 24.3 | 75.4 75.1 | 75.3 | 5.3 5.2 | 5.2 | 5.2 | 5.6 5.5 | 5.6 | | 5.6 4.7 | 5.2 | |
| 24-Aug-16 | Sunny | Moderate | 16:51 | | Surface | 1.0 | 29.4 29.4 | 29.4 | 8.1 8.1 | 8.1 | 13.4 13.6 | 13.5 | 80.7 79.9 | 80.3 | 5.7 5.7 | 5.7 | 5.7 | 3.3 3.6 | 3.5 | | 3.3 3.4 | 3.4 | |
| | | | | 5.1 | Middle | 1 | | - | | - | 1 1 | - | | - | | - | 5.7 | - | - | 3.5 | - | - | 3.6 |
| | | | | | Bottom | 4.1 | 28.6 28.6 | 28.6 | 8.0 8.0 | 8.0 | 17.3 17.2 | 17.3 | 79.0 74.4 | 76.7 | 5.6 5.2 | 5.4 | 5.4 | 3.3 3.6 | 3.5 | | 3.1 4.2 | 3.7 | |
| 26-Aug-16 | Sunny | Moderate | 06:31 | | Surface | 1.0 | 29.4 29.4 | 29.4 | 8.0 8.0 | 8.0 | 15.3 15.3 | 15.3 | 80.4 82.1 | 81.3 | 5.6 5.7 | 5.7 | 5.7 | 3.4 3.3 | 3.4 | | 3.8 4.4 | 4.1 | |
| | | | | 4.1 | Middle | 1 | | - | | - | | - | | - | | - | 3.7 | - | - | 3.5 | - | - | 4.1 |
| | | | | | Bottom | 3.1 | 29.4 29.5 | 29.4 | 8.0 8.0 | 8.0 | 17.0 16.2 | 16.6 | 79.2 80.3 | 79.8 | 5.6 5.6 | 5.6 | 5.6 | 3.6 3.6 | 3.6 | | 3.7 4.4 | 4.1 | |
| 29-Aug-16 | Sunny | Moderate | 10:52 | | Surface | 1.0 | 27.6 27.6 | 27.6 | 8.2 8.2 | 8.2 | 24.3 24.3 | 24.3 | 79.7 80.0 | 79.9 | 5.5 5.5 | 5.5 | 5.5 | 3.8 3.7 | 3.8 | | 3.0 3.6 | 3.3 | |
| | | | | 5.1 | Middle | 1 | | - | | - | | - | | - | | - | 3.3 | - | - | 3.9 | - | - | 5.4 |
| | | | | | Bottom | 4.1 | 27.5 27.5 | 27.5 | 8.2 8.2 | 8.2 | 25.5 25.0 | 25.2 | 79.0 76.1 | 77.6 | 5.5 5.2 | 5.3 | 5.3 | 4.0 4.0 | 4.0 | | 7.3 7.4 | 7.4 | |
| 31-Aug-16 | Sunny | Moderate | 11:34 | | Surface | 1.0 | 27.9 27.8 | 27.8 | 8.0 8.0 | 8.0 | 28.0 28.1 | 28.1 | 81.8 81.5 | 81.7 | 5.5 5.4 | 5.5 | 5.5 | 4.4 4.6 | 4.5 | _ | 7.3 5.6 | 6.5 | |
| | | | | 4.4 | Middle | - | - | - | | - | - | - | - | - | | - | 5.5 | - | - | 4.7 | - | - | 7.0 |
| | | | | | Bottom | 3.4 | 27.8 27.8 | 27.8 | 8.0 8.0 | 8.0 | 29.5 28.5 | 29.0 | 80.8 80.1 | 80.5 | 5.4 5.4 | 5.4 | 5.4 | 4.7 4.8 | 4.8 | | 6.6 8.3 | 7.5 | |

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

[^] As Tropical Cyclone Warning Signal No.3 or above was hoisted, water quality monitoring (except the monitoring locations named CSA, CS6, SR10B(N) and SR10A during Mid-Ebb Tide) was stopped according to the Contingency Plan for Impact Monitoring.

^{*} DA: Depth-Averaged

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at SR7 - Mid-FloodTide

| Date | Weather | Sea | Sampling | Water | Samp | ling | Temper | ature (°C) | | Н | Salini | ty (ppt) | DO Satu | ration (%) | Dissol | ed Oxygen | (mg/L) | Т | urbidity(NT | J) | Suspe | nded Solids | s (mg/L) |
|------------|-----------|-------------|----------|-----------|---------|------|--------------|------------|------------|---------|--------------|----------|--------------|------------|------------|-----------|---------|------------|-------------|----------|-------------|-------------|--|
| | Condition | Condition** | Time | Depth (m) | Depth | (m) | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | DA* | Value | Average | DA* | Value | Average | DA* |
| 1-Aug-16^ | Cloudy | Moderate | - | | Surface | - | - | - | - | - | - | - | - | - | - | - | | - | - | | - | - | |
| | | | | - | Middle | - | - | - | - | - | - | - | - | - | - | - | - | - | - | <u>-</u> | - | - | <u>.</u> |
| | | | | | Bottom | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | - | - | |
| 3-Aug-16 | Cloudy | Moderate | 05:49 | | Surface | 1.0 | 26.0 26.1 | 26.1 | 8.0 8.0 | 8.0 | 26.8 | 26.7 | 89.5 | 85.7 | 6.2 5.7 | 6.0 | | 7.7 | 7.7 | | 9.3 | 9.1 | |
| | | | | 5.1 | Middle | - | - 20.1 | - | - 8.0 | - | 26.6 | - | 81.8 | - | - 5.7 | - | 6.0 | 7.7 | - | 7.8 | 8.9 | - | 9.7 |
| | | | | | Bottom | 4.1 | 26.0 | 26.0 | 8.0 | 8.0 | 27.0 | 27.0 | 84.1 | 82.2 | 5.9 | 5.7 | 5.7 | 8.0 | 7.9 | | 9.9 | 10.3 | 1 |
| 5-Aug-16 | Sunny | Moderate | 07:37 | | Surface | 1.0 | 26.1 26.8 | 26.7 | 7.9 | 7.9 | 26.9 23.1 | 23.0 | 80.2 75.4 | 75.4 | 5.6 5.3 | 5.3 | | 7.7 3.2 | 3.2 | | 10.6 2.9 | 3.6 | |
| | | | | 4.7 | Middle | | 26.7 | | 7.9 - | - | 23.0 | | 75.4 - | - | 5.3 | | 5.3 | 3.1 | | 3.3 | 4.3 | | 3.9 |
| | | | | 4.7 | Bottom | 3.7 | 26.6 | 26.7 | 7.9 | 7.9 | 24.3 | 24.5 | 73.6 | 73.5 | 5.1 | 5.1 | 5.1 | 3.3 | 3.4 | 0.0 | 4.1 | 4.2 | 0.5 |
| 8-Aug-16 | Sunny | Moderate | 09:39 | | Surface | 1.0 | 26.7 28.2 | 28.2 | 7.9 8.0 | 8.0 | 24.7 21.9 | 21.9 | 73.3 82.7 | 82.8 | 5.1 5.7 | 5.7 | 3.1 | 3.4 | 3.5 | | 4.3 3.1 | 3.5 | |
| | - | | | 4.4 | Middle | 1.0 | 28.3 | 20.2 | 8.0 | 0.0 | 21.8 | 21.9 | 82.8 | 02.0 | 5.7 | 5.7 | 5.7 | 3.5 | 3.3 | 3.6 | 3.8 | - | 4.0 |
| | | | | 4.4 | | 2.4 | 26.9 | 27.5 | 8.0 | - | 26.2 | - 04.4 | - 81.1 | 04.5 | - 5.6 | - | <i></i> | 3.7 | | 3.0 | 3.6 | 4.5 | 4.0 |
| 10-Aug-16 | Rainy | Moderate | 11:26 | | Bottom | 3.4 | 28.2 27.4 | 27.5 | 8.0 7.8 | 8.0 | 22.0 22.1 | 24.1 | 81.9 75.7 | 81.5 | 5.7 5.2 | 5.6 | 5.6 | 3.6 4.9 | 3.7 | | 5.4 1.0 | | |
| 10 7.ug 10 | rianiy | moderate | 11.20 | | Surface | 1.0 | 27.5 | 27.5 | 7.9 | 7.9 | 22.3 | 22.2 | 74.6 | 75.2 | 5.2 | 5.2 | 5.2 | 4.8 | 4.9 | | 1.1 | 1.1 | - |
| | | | | 4.4 | Middle | - | 26.8 | - | 7.8 | - | 26.5 | - | 73.9 | - | 5.1 | - | | 5.1 | - | 5.0 | 1.4 | - | 1.2 |
| 10.1 10 | F | Madage | 44.57 | | Bottom | 3.4 | 26.8 | 26.8 | 7.8 | 7.8 | 26.9 | 26.7 | 73.5 | 73.7 | 5.1 | 5.1 | 5.1 | 5.0 | 5.1 | | 1.2 | 1.3 | |
| 12-Aug-16 | Fine | Moderate | 14:57 | | Surface | 1.0 | 28.6 28.6 | 28.6 | 8.1 8.1 | 8.1 | 7.0 6.9 | 6.9 | 87.3 81.6 | 84.5 | 6.1 6.0 | 6.1 | 6.1 | 2.4 2.3 | 2.4 | | 2.3 3.0 | 2.7 | |
| | | | | 4.6 | Middle | - | - | - | - | - | - | - | - | - | - | - | | - | - | 2.5 | - | - | 2.8 |
| | | | | | Bottom | 3.6 | 27.2 27.5 | 27.3 | 7.8 7.8 | 7.8 | 19.2 21.1 | 20.1 | 80.2 80.2 | 80.2 | 5.8 5.9 | 5.9 | 5.9 | 2.5 2.5 | 2.5 | | 2.5 3.1 | 2.8 | |
| 15-Aug-16 | Cloudy | Moderate | 19:04 | | Surface | 1.0 | 26.5 26.9 | 26.7 | 8.1 8.1 | 8.1 | 25.6 25.4 | 25.5 | 82.6 84.3 | 83.5 | 5.7 5.8 | 5.8 | 5.8 | 4.5 4.6 | 4.6 | | 6.6 6.6 | 6.6 | |
| | | | | 4.4 | Middle | 1 | - | - | - | - | - | - | | - | - | - | 0.0 | - | - | 4.8 | - | - | 6.5 |
| | | | | | Bottom | 3.4 | 26.3 26.6 | 26.4 | 8.0 8.1 | 8.1 | 27.4 26.9 | 27.2 | 79.6 81.8 | 80.7 | 5.5 5.6 | 5.6 | 5.6 | 4.9 4.8 | 4.9 | | 6.7 5.9 | 6.3 | |
| 17-Aug-16 | Rainy | Moderate | 19:28 | | Surface | 1.0 | 26.5 26.6 | 26.5 | 8.1 8.1 | 8.1 | 26.8 26.7 | 26.8 | 80.8 82.1 | 81.5 | 5.6 5.7 | 5.6 | | 6.1 6.1 | 6.1 | | 7.1 7.2 | 7.2 | |
| | | | | 4.4 | Middle | - | - | - | - | - | - | - | - | - | - | - | 5.6 | - | - | 6.2 | - | - | 8.0 |
| | | | | | Bottom | 3.4 | 26.3 26.5 | 26.4 | 8.0 8.1 | 8.1 | 27.5 27.2 | 27.4 | 80.6 81.9 | 81.3 | 5.6 5.7 | 5.6 | 5.6 | 6.2 6.2 | 6.2 | | 8.6 8.9 | 8.8 | |
| 19-Aug-16 | Fine | Moderate | 06:40 | | Surface | 1.0 | 26.2 26.2 | 26.2 | 8.0 8.0 | 8.0 | 28.0 28.2 | 28.1 | 77.4 77.6 | 77.5 | 5.3 5.4 | 5.3 | | 4.9 4.8 | 4.9 | | 4.0 5.2 | 4.6 | |
| | | | | 4.4 | Middle | - | - | - | - | - | - | - | - | - | - | - | 5.3 | - | - | 5.0 | - | - | 5.0 |
| | | | | | Bottom | 3.4 | 26.2 26.1 | 26.2 | 8.0 8.0 | 8.0 | 28.1 28.3 | 28.2 | 76.9 76.2 | 76.6 | 5.3 5.3 | 5.3 | 5.3 | 5.1 5.0 | 5.1 | | 5.6 5.1 | 5.4 | 1 |

Remarks:

* DA: Depth-Averaged

** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at SR7 - Mid-FloodTide

| Date | Weather | Sea | Sampling | Water | Samp | ling | Temper | ature (°C) | | ρΗ | Salini | ty (ppt) | DO Satu | ration (%) | Dissol | ved Oxygen | (mg/L) | 1 | urbidity(NT | J) | Susper | nded Solids | (mg/L) |
|-----------|-----------|-------------|----------|-----------|---------|------|--------------|------------|------------|---------|--------------|----------|--------------|------------|------------|------------|--------|------------|-------------|-----|------------|-------------|----------|
| | Condition | Condition** | Time | Depth (m) | Depth | (m) | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | DA* | Value | Average | DA* | Value | Average | DA* |
| 22-Aug-16 | Sunny | Moderate | 09:03 | | Surface | 1.0 | 27.8 27.8 | 27.8 | 7.8 7.8 | 7.8 | 23.0 23.1 | 23.0 | 75.0 74.8 | 74.9 | 5.2 5.2 | 5.2 | 5.2 | 2.4 2.5 | 2.5 | | 5.1 5.1 | 5.1 | |
| | | | | 4.3 | Middle | - | - | - | - | - | - | - | - | - | - | - | 0.2 | - | - | 2.7 | - | - | 5.3 |
| | | | | | Bottom | 3.3 | 27.9 27.8 | 27.9 | 7.8 7.8 | 7.8 | 22.7 23.2 | 22.9 | 73.3 73.5 | 73.4 | 5.1 5.1 | 5.1 | 5.1 | 2.8 2.9 | 2.9 | | 5.1 5.6 | 5.4 | |
| 24-Aug-16 | Sunny | Moderate | 11:00 | | Surface | 1.0 | 28.4 28.4 | 28.4 | 7.9 7.9 | 7.9 | 23.2 23.1 | 23.2 | 75.6 74.8 | 75.2 | 5.2 5.1 | 5.1 | 5.1 | 3.8 3.9 | 3.9 | | 3.0 2.6 | 2.8 | |
| | | | | 5.1 | Middle | 1 | | - | 1 1 | - | 1 1 | - | - | - | | - | 5.1 | - | - | 4.0 | 1 1 | - | 3.2 |
| | | | | | Bottom | 4.1 | 28.4 27.8 | 28.1 | 7.9 7.9 | 7.9 | 23.4 25.6 | 24.5 | 74.4 73.7 | 74.1 | 5.1 5.0 | 5.1 | 5.1 | 3.9 4.0 | 4.0 | | 3.0 4.1 | 3.6 | |
| 26-Aug-16 | Sunny | Moderate | 13:59 | | Surface | 1.0 | 29.9 29.9 | 29.9 | 7.9 7.9 | 7.9 | 10.7 10.9 | 10.8 | 82.8 82.6 | 82.7 | 5.9 5.9 | 5.9 | 5.9 | 4.3 4.2 | 4.3 | | 3.9 5.2 | 4.6 | |
| | | | | 4.1 | Middle | i | | - | 1 1 | - | | - | - | - | | - | 5.5 | - | - | 4.4 | | - | 5.2 |
| | | | | | Bottom | 3.1 | 29.5 29.8 | 29.6 | 7.8 7.9 | 7.8 | 13.8 13.9 | 13.8 | 81.8 81.9 | 81.9 | 5.8 5.8 | 5.8 | 5.8 | 4.4 4.4 | 4.4 | | 5.4 5.9 | 5.7 | |
| 29-Aug-16 | Sunny | Moderate | 17:44 | | Surface | 1.0 | 27.7 27.6 | 27.7 | 8.2 8.2 | 8.2 | 18.8 19.3 | 19.1 | 71.8 71.3 | 71.6 | 5.1 5.1 | 5.1 | 5.1 | 7.0 6.9 | 7.0 | | 3.2 3.7 | 3.5 | |
| | | | | 5.0 | Middle | ı | | - | | - | | - | - | - | | - | 5.1 | - | - | 7.2 | 1 1 | - | 5.9 |
| | | | | | Bottom | 4.0 | 27.6 27.3 | 27.5 | 8.2 8.1 | 8.2 | 19.4 20.0 | 19.7 | 71.2 70.7 | 71.0 | 5.0 5.0 | 5.0 | 5.0 | 7.3 7.2 | 7.3 | | 8.6 8.0 | 8.3 | |
| 31-Aug-16 | Sunny | Moderate | 19:56 | | Surface | 1.0 | 28.4 28.4 | 28.4 | 8.1 8.1 | 8.1 | 22.5 22.8 | 22.7 | 76.9 76.7 | 76.8 | 5.2 5.2 | 5.2 | 5.2 | 4.8 4.6 | 4.7 | | 4.7 6.0 | 5.4 | |
| | | | | 4.5 | Middle | - | - | - | - | - | | - | - | - | | - | J.Z | - | - | 5.0 | | - | 6.2 |
| | | | | | Bottom | 3.5 | 28.3 28.3 | 28.3 | 8.1 8.1 | 8.1 | 24.6 24.1 | 24.4 | 76.3 76.1 | 76.2 | 5.2 5.2 | 5.2 | 5.2 | 5.2 5.2 | 5.2 | | 7.2 6.7 | 7.0 | <u> </u> |

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

[^] As Tropical Cyclone Warning Signal No.3 or above was hoisted, water quality monitoring (except the monitoring locations named CSA, CS6, SR10B(N) and SR10A during Mid-Ebb Tide) was stopped according to the Contingency Plan for Impact Monitoring.

^{*} DA: Depth-Averaged

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at SR10A - Mid-EbbTide

| Date | Weather | Sea | Sampling | Water | Samp | ling | Tempera | ature (°C) | p | Н | Salini | ty (ppt) | DO Satu | ration (%) | Dissolv | ed Oxygen | (mg/L) | Т | urbidity(NT | J) | Suspe | nded Solids | (mg/L) |
|-----------|-----------|-------------|----------|-----------|---------|------|--------------|------------|------------|---------|--------------|----------|--------------|------------|------------|-----------|--------|------------|-------------|-----|------------|-------------|----------|
| | Condition | Condition** | Time | Depth (m) | Depth | (m) | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | DA* | Value | Average | DA* | Value | Average | DA* |
| 1-Aug-16 | Cloudy | Moderate | 11:24 | | Surface | 1.0 | 26.5 26.6 | 26.6 | 8.5 8.5 | 8.5 | 29.7 29.6 | 29.6 | 92.7 96.7 | 94.7 | 6.3 6.6 | 6.4 | | 3.4 3.5 | 3.5 | | 4.8 6.0 | 5.4 | |
| | | | | 6.2 | Middle | 3.1 | 26.5 26.2 | 26.3 | 8.5 8.5 | 8.5 | 29.9 30.5 | 30.2 | 95.5 90.1 | 92.8 | 6.5 6.1 | 6.3 | 6.4 | 3.9 3.7 | 3.8 | 3.7 | 6.3 5.9 | 6.1 | 5.7 |
| | | | | | Bottom | 5.2 | 26.4 26.1 | 26.3 | 8.5 8.5 | 8.5 | 30.4 30.8 | 30.6 | 94.1 89.7 | 91.9 | 6.4 | 6.3 | 6.3 | 3.9 3.9 | 3.9 | | 5.6 5.3 | 5.5 |] |
| 3-Aug-16 | Cloudy | Moderate | 13:56 | I | Surface | 1.0 | 26.0 | 25.9 | 8.2 | 8.2 | 27.5 | 27.5 | 83.6 | 83.7 | 5.9 | 5.9 | | 8.6 | 8.5 | | 6.4 | 6.8 | |
| | | | | 6.5 | Middle | 3.3 | 25.9 25.7 | 25.7 | 8.2 8.2 | 8.2 | 27.4 28.1 | 28.3 | 83.7 82.7 | 83.1 | 5.9 5.8 | 5.8 | 5.9 | 8.3 8.2 | 8.4 | 8.4 | 7.2 5.7 | 6.8 | 7.0 |
| | | | | 0.5 | | | 25.7 25.6 | | 8.2 8.2 | | 28.6 28.9 | | 83.4 83.1 | | 5.9 5.8 | | | 8.5 8.3 | _ | 0.4 | 7.9 7.9 | | 7.0 |
| 5 000 40 | Commen | Madasata | 44.50 | | Bottom | 5.5 | 25.8 27.2 | 25.7 | 8.2 8.1 | 8.2 | 28.8 | 28.8 | 83.8 78.2 | 83.5 | 5.9 5.4 | 5.9 | 5.9 | 8.5 4.5 | 8.4 | | 6.7 | 7.3 | <u> </u> |
| 5-Aug-16 | Sunny | Moderate | 14:56 | | Surface | 1.0 | 27.1 | 27.2 | 8.2 | 8.2 | 24.4 | 24.3 | 77.7 | 78.0 | 5.3 | 5.3 | 5.3 | 4.5 | 4.5 | | 2.6 | 3.0 | |
| | | | | 6.5 | Middle | 3.3 | 26.6 26.7 | 26.7 | 8.1 8.1 | 8.1 | 25.0 25.0 | 25.0 | 77.1 77.2 | 77.2 | 5.3 5.3 | 5.3 | | 5.2 5.1 | 5.2 | 5.0 | 3.4 4.0 | 3.7 | 3.3 |
| | | | | | Bottom | 5.5 | 26.7 26.3 | 26.5 | 8.1 8.1 | 8.1 | 26.4 26.3 | 26.3 | 77.0 76.7 | 76.9 | 5.3 5.3 | 5.3 | 5.3 | 5.2 5.1 | 5.2 | | 3.1 3.3 | 3.2 | |
| 8-Aug-16 | Sunny | Moderate | 16:58 | | Surface | 1.0 | 28.9 28.9 | 28.9 | 8.0 8.0 | 8.0 | 19.8 19.8 | 19.8 | 95.5 95.9 | 95.7 | 6.6 6.6 | 6.6 | | 3.0 2.9 | 3.0 | | 7.2 4.9 | 6.1 | |
| | | | | 6.3 | Middle | 3.2 | 28.7 28.7 | 28.7 | 8.0 8.0 | 8.0 | 19.9 19.9 | 19.9 | 94.9 94.2 | 94.6 | 6.6 6.5 | 6.5 | 6.6 | 3.2 3.1 | 3.2 | 3.1 | 5.7 7.6 | 6.7 | 6.6 |
| | | | | | Bottom | 5.3 | 28.7 | 28.7 | 8.0 | 8.0 | 21.3 | 21.6 | 94.8 | 94.9 | 6.5 | 6.5 | 6.5 | 3.1 | 3.1 | | 6.1 | 7.0 |] |
| 10-Aug-16 | Rainy | Moderate | 18:10 | | Surface | 1.0 | 28.8 27.7 | 27.7 | 8.3 | 8.3 | 22.0 21.4 | 21.4 | 95.0 80.9 | 80.8 | 6.5 5.7 | 5.7 | | 3.0 1.8 | 1.8 | | 7.9 1.8 | 1.8 | |
| | | | | 6.5 | Middle | 3.3 | 27.7 27.4 | 27.3 | 8.3 8.3 | 8.3 | 21.4 23.8 | 23.9 | 80.7 80.8 | 80.4 | 5.6 5.5 | 5.6 | 5.7 | 1.7 | 1.8 | 1.8 | 1.8 | 2.1 | 1.9 |
| | | | | 6.5 | | | 27.3 27.3 | | 8.3 8.3 | | 24.0 24.9 | | 79.9 78.8 | | 5.6 5.5 | | | 1.9 1.9 | - | 1.0 | 2.3 | | 1.9 |
| 12 Aug 16 | Boiny | Moderate | 07:22 | | Bottom | 5.5 | 27.7 | 27.5 | 8.3 | 8.3 | 24.8 | 24.9 | 80.5 | 79.7 | 5.5 | 5.5 | 5.5 | 1.8 | 1.9 | | 1.7 | 1.9 | <u> </u> |
| 12-Aug-16 | Rainy | Moderate | 07.22 | | Surface | 1.0 | 27.0 27.0 | 27.0 | 8.2 8.2 | 8.2 | 23.3 | 23.3 | 72.2 73.5 | 72.9 | 5.0 5.1 | 5.1 | 5.1 | 1.5 1.6 | 1.6 | | 1.7 2.0 | 1.9 | |
| | | | | 6.6 | Middle | 3.3 | 26.7 26.9 | 26.8 | 8.2 8.2 | 8.2 | 25.2 25.3 | 25.2 | 72.9 72.0 | 72.5 | 5.1 5.0 | 5.1 | | 1.5 1.5 | 1.5 | 1.5 | 2.4 2.6 | 2.5 | 2.5 |
| | | | | | Bottom | 5.6 | 26.8 26.6 | 26.7 | 8.2 8.2 | 8.2 | 25.8 26.0 | 25.9 | 73.0 72.0 | 72.5 | 5.1 5.0 | 5.0 | 5.0 | 1.5 1.5 | 1.5 | | 3.5 2.7 | 3.1 | |
| 15-Aug-16 | Cloudy | Moderate | 10:11 | | Surface | 1.0 | 26.7 26.7 | 26.7 | 8.3 8.3 | 8.3 | 25.8 25.7 | 25.7 | 74.2 77.5 | 75.9 | 5.1 5.4 | 5.3 | | 2.7 2.6 | 2.7 | | 4.4 4.0 | 4.2 | |
| | | | | 6.3 | Middle | 3.2 | 26.4 26.2 | 26.3 | 8.3 8.3 | 8.3 | 26.7 27.7 | 27.2 | 76.6 73.8 | 75.2 | 5.2 5.1 | 5.2 | 5.3 | 2.9 3.0 | 3.0 | 2.9 | 4.5 4.5 | 4.5 | 4.7 |
| | | | | | Bottom | 5.3 | 25.3 | 25.8 | 8.2 | 8.2 | 30.2 | 30.1 | 72.7 74.1 | 73.4 | 5.1 5.1 | 5.1 | 5.1 | 3.1 | 3.0 | | 6.0 | 5.4 | |
| 17-Aug-16 | Rainy | Moderate | 11:30 | | Surface | 1.0 | 26.3 25.7 | 25.7 | 8.2 8.2 | 8.2 | 30.0 28.5 | 28.5 | 76.9 | 76.8 | 5.3 | 5.3 | | 1.3 | 1.3 | | 4.8 5.9 | 5.8 | |
| | | | | 6.7 | Middle | 3.4 | 25.6 25.3 | 25.3 | 8.2 8.2 | 8.2 | 28.5 30.7 | 30.7 | 76.7 76.2 | 76.2 | 5.3 5.3 | 5.3 | 5.3 | 1.3 | 1.5 | 1.5 | 5.6 6.1 | 6.5 | 6.9 |
| | | | | 0.7 | | | 25.2 25.4 | | 8.2 8.2 | | 30.7 31.3 | | 76.1 75.5 | | 5.3 5.2 | | | 1.6 1.7 | _ | 1.5 | 6.8 8.5 | | 6.9 |
| 10 Aug 16 | Fine | Moderate | 14:16 | | Bottom | 5.7 | 25.2 | 25.3 | 8.2 8.2 | 8.2 | 31.6 27.8 | 31.5 | 75.8 | 75.7 | 5.2 | 5.2 | 5.2 | 1.5 | 1.6 | | 8.1 | 8.3 | <u> </u> |
| 19-Aug-16 | rine | iviouerate | 14:10 | | Surface | 1.0 | 26.5 26.4 | 26.4 | 8.2 | 8.2 | 27.8 | 27.8 | 79.1 79.0 | 79.1 | 5.5 5.5 | 5.5 | 5.5 | 6.0 5.8 | 5.9 | | 7.4 7.3 | 7.4 | |
| | | | | 6.5 | Middle | 3.3 | 26.3 26.3 | 26.3 | 8.2 8.2 | 8.2 | 27.9 27.9 | 27.9 | 78.5 78.0 | 78.3 | 5.5 5.4 | 5.4 | | 5.9 6.1 | 6.0 | 6.0 | 8.1 9.3 | 8.7 | 8.2 |
| | | | | | Bottom | 5.5 | 26.1 26.1 | 26.1 | 8.2 8.2 | 8.2 | 28.3 28.2 | 28.2 | 78.7 78.0 | 78.4 | 5.5 5.4 | 5.5 | 5.5 | 5.9 6.1 | 6.0 | | 8.2 9.0 | 8.6 | |

Remarks:

* DA: Depth-Averaged

** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at SR10A - Mid-EbbTide

| Date | Weather | Sea | Sampling | Water | Samp | ling | Tempera | ature (°C) | ŗ | Н | Salini | ty (ppt) | DO Satu | ration (%) | Dissol | ed Oxygen | (mg/L) | Т | urbidity(NT | U) | Susper | nded Solids | (mg/L) |
|-----------|-----------|-------------|----------|-----------|---------|------|--------------|------------|------------|---------|--------------|----------|--------------|------------|------------|-----------|--------|------------|-------------|-----|-------------|-------------|--------|
| | Condition | Condition** | Time | Depth (m) | Depth | (m) | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | DA* | Value | Average | DA* | Value | Average | DA* |
| 22-Aug-16 | Sunny | Moderate | 16:06 | | Surface | 1.0 | 28.4 28.2 | 28.3 | 8.2 8.2 | 8.2 | 21.4 21.7 | 21.6 | 79.0 79.3 | 79.2 | 5.6 5.6 | 5.6 | 5.6 | 4.2 4.2 | 4.2 | | 4.6 5.8 | 5.2 | |
| | | | | 6.5 | Middle | 3.3 | 27.9 27.8 | 27.9 | 8.2 8.2 | 8.2 | 23.9 23.9 | 23.9 | 78.5 78.3 | 78.4 | 5.5 5.6 | 5.6 | 3.0 | 4.2 4.4 | 4.3 | 4.2 | 4.5 4.3 | 4.4 | 4.9 |
| | | | | | Bottom | 5.5 | 28.1 27.6 | 27.8 | 8.2 8.2 | 8.2 | 24.9 24.5 | 24.7 | 77.7 77.6 | 77.7 | 5.5 5.5 | 5.5 | 5.5 | 4.2 4.2 | 4.2 | | 5.6 4.7 | 5.2 | |
| 24-Aug-16 | Sunny | Moderate | 17:56 | | Surface | 1.0 | 29.4 29.0 | 29.2 | 8.3 8.3 | 8.3 | 20.9 21.8 | 21.4 | 75.6 75.1 | 75.4 | 5.1 5.1 | 5.1 | 5.1 | 2.8 2.8 | 2.8 | | 1.2 0.8 | 1.0 | |
| | | | | 6.4 | Middle | 3.2 | 28.0 28.3 | 28.1 | 8.3 8.3 | 8.3 | 23.7 23.5 | 23.6 | 74.4 73.8 | 74.1 | 5.1 5.0 | 5.1 | 0.1 | 2.7 2.8 | 2.8 | 2.8 | 1.7 1.8 | 1.8 | 1.4 |
| | | | | | Bottom | 5.4 | 27.4 27.9 | 27.7 | 8.2 8.3 | 8.3 | 27.5 26.2 | 26.8 | 72.2 70.9 | 71.6 | 4.9 4.9 | 4.9 | 4.9 | 2.8 2.9 | 2.9 | | 1.4 1.4 | 1.4 | |
| 26-Aug-16 | Sunny | Moderate | 06:42 | | Surface | 1.0 | 28.9 28.7 | 28.8 | 8.2 8.2 | 8.2 | 22.7 22.9 | 22.8 | 81.2 81.1 | 81.2 | 5.5 5.5 | 5.5 | 5.5 | 3.0 3.0 | 3.0 | | 3.2 2.9 | 3.1 | |
| | | | | 6.4 | Middle | 3.2 | 28.5 28.5 | 28.5 | 8.2 8.2 | 8.2 | 23.8 23.8 | 23.8 | 81.2 81.0 | 81.1 | 5.5 5.5 | 5.5 | 5.5 | 3.2 3.1 | 3.2 | 3.1 | 3.0 3.8 | 3.4 | 3.8 |
| | | | | | Bottom | 5.4 | 28.7 28.5 | 28.6 | 8.2 8.2 | 8.2 | 24.8 24.8 | 24.8 | 80.7 80.6 | 80.7 | 5.5 5.5 | 5.5 | 5.5 | 3.0 3.2 | 3.1 | | 4.3 5.4 | 4.9 | |
| 29-Aug-16 | Sunny | Moderate | 10:16 | | Surface | 1.0 | 27.6 27.6 | 27.6 | 8.3 8.3 | 8.3 | 27.6 27.6 | 27.6 | 80.6 79.3 | 80.0 | 5.5 5.4 | 5.5 | 5.5 | 3.2 3.2 | 3.2 | | 4.8 4.8 | 4.8 | |
| | | | | 6.6 | Middle | 3.3 | 26.9 27.0 | 27.0 | 8.2 8.2 | 8.2 | 30.5 30.4 | 30.4 | 79.0 80.3 | 79.7 | 5.4 5.4 | 5.4 | 5.5 | 3.3 3.4 | 3.4 | 3.3 | 7.8 7.3 | 7.6 | 6.5 |
| | | | | | Bottom | 5.6 | 26.5 27.4 | 27.0 | 8.2 8.2 | 8.2 | 32.5 31.7 | 32.1 | 76.8 79.0 | 77.9 | 5.2 5.4 | 5.3 | 5.3 | 3.3 3.2 | 3.3 | | 6.4 7.6 | 7.0 | |
| 31-Aug-16 | Sunny | Moderate | 11:41 | | Surface | 1.0 | 27.7 27.7 | 27.7 | 8.4 8.3 | 8.4 | 30.4 30.4 | 30.4 | 78.6 78.7 | 78.7 | 5.2 5.2 | 5.2 | 5.2 | 8.8 8.6 | 8.7 | | 10.1 9.3 | 9.7 | |
| | | | | 6.1 | Middle | 3.1 | 27.3 27.4 | 27.4 | 8.3 8.4 | 8.4 | 30.9 30.8 | 30.9 | 78.5 78.5 | 78.5 | 5.2 5.2 | 5.2 | 5.2 | 8.8 8.9 | 8.9 | 8.8 | 10.9 9.7 | 10.3 | 10.1 |
| | | | | | Bottom | 5.1 | 27.4 27.2 | 27.3 | 8.3 8.4 | 8.4 | 30.9 31.1 | 31.0 | 78.0 77.9 | 78.0 | 5.2 5.2 | 5.2 | 5.2 | 8.8 8.8 | 8.8 | | 10.5 9.9 | 10.2 | |

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

DA: Depth-Averaged
 Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at SR10A - Mid-FloodTide

| Date | Weather | Sea | Sampling | Water | Samp | ing | Tempera | ature (°C) | | Н | Salini | ty (ppt) | DO Satu | ration (%) | Dissol | ved Oxygen | (mg/L) | Т | urbidity(NTl | J) | Suspe | nded Solids | (mg/L) |
|-----------|-----------|-------------|----------|-----------|---------|-----|----------------------|------------|------------|---------|--------------|----------|----------------------|------------|-------------------|------------|--------|------------|--------------|-----|------------|-------------|--------|
| | Condition | Condition** | Time | Depth (m) | Depth | (m) | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | DA* | Value | Average | DA* | Value | Average | DA* |
| 1-Aug-16^ | Cloudy | Moderate | - | | Surface | - | - | - | - | - | - | - | - | - | - | - | | - | - | | - | - | |
| | | | | - | Middle | - | - | - | - | - | - | - | - | - | - | - | - | - | - | = | - | - | - |
| | | | | | Bottom | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | - | - | |
| 3-Aug-16 | Cloudy | Moderate | 05:40 | | Surface | 1.0 | 25.0 25.1 | 25.1 | 8.2 8.2 | 8.2 | 32.3 32.5 | 32.4 | 76.1 75.0 | 75.6 | 5.3 5.2 | 5.3 | | 5.1 5.3 | 5.2 | | 5.1 5.0 | 5.1 | |
| | | | | 6.5 | Middle | 3.3 | 24.7 24.7 | 24.7 | 8.2 8.2 | 8.2 | 34.3 34.0 | 34.2 | 75.0 75.0 74.8 | 74.9 | 5.2 5.2 | 5.2 | 5.3 | 5.2 5.4 | 5.3 | 5.3 | 5.3 6.0 | 5.7 | 6.2 |
| | | | | | Bottom | 5.5 | 24.5 24.7 | 24.6 | 8.2 8.2 | 8.2 | 35.2 34.8 | 35.0 | 74.5 74.1 | 74.3 | 5.2 5.2 | 5.2 | 5.2 | 5.3 5.3 | 5.3 | | 8.0 7.7 | 7.9 | |
| 5-Aug-16 | Sunny | Moderate | 07:04 | | Surface | 1.0 | 25.7 25.6 | 25.7 | 8.1 8.1 | 8.1 | 27.1 27.2 | 27.2 | 72.1 72.1 | 72.1 | 5.1 5.1 | 5.1 | | 3.0 3.0 | 3.0 | | 4.2 4.5 | 4.4 | |
| | | | | 6.6 | Middle | 3.3 | 25.2 25.3 | 25.3 | 8.1 8.1 | 8.1 | 28.4 28.1 | 28.3 | 71.8 71.0 | 71.4 | 5.1 5.0 | 5.1 | 5.1 | 3.0 | 3.1 | 3.1 | 3.7 3.9 | 3.8 | 4.1 |
| | | | | | Bottom | 5.6 | 25.3 25.3 24.7 | 25.0 | 8.1 8.1 | 8.1 | 30.8 31.2 | 31.0 | 71.4 70.8 | 71.1 | 5.0 5.0 | 5.0 | 5.0 | 3.1 | 3.1 | | 4.5 3.8 | 4.2 | |
| 8-Aug-16 | Sunny | Moderate | 09:01 | | Surface | 1.0 | 28.1 28.0 | 28.0 | 8.0 8.0 | 8.0 | 20.2 20.2 | 20.2 | 81.0 79.4 | 80.2 | 5.0 5.6 5.5 | 5.6 | | 1.4 1.5 | 1.5 | | 2.7 3.9 | 3.3 | |
| | | | | 6.4 | Middle | 3.2 | 27.6 27.3 | 27.5 | 8.0 8.0 | 8.0 | 21.8 23.1 | 22.5 | 79.4 79.8 76.9 | 78.4 | 5.5 5.3 | 5.4 | 5.5 | 1.5 | 1.5 | 1.5 | 3.2 | 3.0 | 3.2 |
| | | | | | Bottom | 5.4 | 26.8 27.6 | 27.2 | 8.0 8.0 | 8.0 | 25.0 24.6 | 24.8 | 76.2 79.3 | 77.8 | 5.3 5.5 | 5.4 | 5.4 | 1.4 | 1.5 | | 3.5 | 3.4 | |
| 10-Aug-16 | Rainy | Moderate | 11:04 | | Surface | 1.0 | 27.7 27.7 | 27.7 | 8.3 8.3 | 8.3 | 21.0 20.6 | 20.8 | 84.4 83.5 | 84.0 | 6.0 5.9 | 6.0 | | 1.4 1.4 | 1.4 | | 1.8 | 1.9 | |
| | | | | 6.4 | Middle | 3.2 | 27.2 27.1 | 27.1 | 8.2 8.2 | 8.2 | 24.8 25.3 | 25.1 | 84.1 81.5 | 82.8 | 5.8 5.7 | 5.7 | 5.9 | 1.4 | 1.5 | 1.5 | 1.9 | 2.0 | 2.2 |
| | | | | | Bottom | 5.4 | 27.1 26.5 | 26.8 | 8.2 8.2 | 8.2 | 27.7 28.2 | 27.9 | 82.1 80.0 | 81.1 | 5.8 5.6 | 5.7 | 5.7 | 1.5 | 1.5 | | 2.5 | 2.6 | |
| 12-Aug-16 | Fine | Moderate | 15:51 | | Surface | 1.0 | 28.0 27.8 | 27.9 | 8.3 8.3 | 8.3 | 20.6 20.8 | 20.7 | 77.2 77.5 | 77.4 | 5.4 5.4 | 5.4 | | 1.7 1.8 | 1.8 | | 2.7 | 2.8 | |
| | | | | 6.5 | Middle | 3.3 | 27.4 27.0 | 27.2 | 8.3 8.2 | 8.3 | 23.9 24.5 | 24.2 | 72.5 76.1 | 74.3 | 5.0 5.3 | 5.2 | 5.3 | 1.7 | 1.7 | 1.8 | 2.4 | 2.5 | 2.8 |
| | | | | | Bottom | 5.5 | 25.6 25.6 | 25.6 | 8.2 8.2 | 8.2 | 29.0 27.9 | 28.5 | 73.3 71.1 | 72.2 | 5.1 5.0 | 5.0 | 5.0 | 1.7 | 1.8 | | 2.8 | 3.2 | |
| 15-Aug-16 | Cloudy | Moderate | 18:56 | | Surface | 1.0 | 26.9 26.8 | 26.9 | 8.4 8.4 | 8.4 | 23.8 23.9 | 23.8 | 79.7 82.6 | 81.2 | 5.6 5.8 | 5.7 | | 3.2 3.2 | 3.2 | | 5.7 5.0 | 5.4 | |
| | | | | 6.3 | Middle | 3.2 | 26.4 26.3 | 26.4 | 8.3 8.3 | 8.3 | 27.2 27.1 | 27.1 | 79.6 78.7 | 79.2 | 5.5 5.4 | 5.5 | 5.6 | 3.0 | 3.2 | 3.2 | 6.8 5.4 | 6.1 | 6.4 |
| | | | | | Bottom | 5.3 | 25.4 25.7 | 25.5 | 8.3 8.3 | 8.3 | 30.3 30.3 | 30.3 | 73.1 71.8 | 72.5 | 5.1 5.0 | 5.0 | 5.0 | 3.3 | 3.3 | | 7.9 | 7.6 | |
| 17-Aug-16 | Rainy | Moderate | 20:03 | | Surface | 1.0 | 25.6 25.7 | 25.6 | 8.3 8.3 | 8.3 | 28.5 28.3 | 28.4 | 79.8 80.4 | 80.1 | 5.5 5.6 | 5.5 | | 3.2 3.3 | 3.3 | | 4.3 4.1 | 4.2 | |
| | | | | 6.7 | Middle | 3.4 | 25.6 25.4 | 25.5 | 8.3 8.3 | 8.3 | 28.3 29.2 | 28.8 | 79.5 79.1 | 79.3 | 5.5 5.5 | 5.5 | 5.5 | 3.4 3.5 | 3.5 | 3.5 | 4.4 | 5.0 | 4.7 |
| | | | | | Bottom | 5.7 | 25.6 25.6 | 25.6 | 8.3 8.3 | 8.3 | 29.5 30.0 | 29.7 | 79.0 78.1 | 78.6 | 5.5 5.4 | 5.4 | 5.4 | 3.8 | 3.8 | | 4.5 5.2 | 4.9 | |
| 19-Aug-16 | Fine | Moderate | 06:12 | | Surface | 1.0 | 26.0 26.0 | 26.0 | 8.1 8.1 | 8.1 | 28.4 28.4 | 28.4 | 74.9 75.3 | 75.1 | 5.2 5.3 | 5.2 | | 4.7 4.8 | 4.8 | | 4.0 | 3.6 | |
| | | | | 6.6 | Middle | 3.3 | 25.7 25.6 | 25.6 | 8.1 8.1 | 8.1 | 30.1 30.2 | 30.2 | 75.3 74.6 | 75.0 | 5.2 5.2 | 5.2 | 5.2 | 5.1 5.1 | 5.1 | 5.0 | 4.2 | 3.5 | 3.9 |
| | | | | | Bottom | 5.6 | 25.6 25.8 | 25.7 | 8.1 8.1 | 8.1 | 30.3 30.1 | 30.2 | 73.9 74.5 | 74.2 | 5.1 5.2 | 5.2 | 5.2 | 5.1 | 5.2 | | 3.7 | 4.6 | |

Remarks:

* DA: Depth-Averaged

** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at SR10A - Mid-FloodTide

| Date | Weather | Sea | Sampling | Water | Samp | ling | Tempera | ature (°C) | | ρΗ | Salini | ty (ppt) | DO Satu | ration (%) | Dissol | ed Oxygen | (mg/L) | Т | urbidity(NTl | J) | Suspe | nded Solids | s (mg/L) |
|-----------|-----------|-------------|----------|-----------|---------|------|--------------|------------|------------|---------|--------------|----------|--------------|------------|------------|-----------|--------|------------|--------------|-----|------------|-------------|----------|
| | Condition | Condition** | Time | Depth (m) | Depth | (m) | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | DA* | Value | Average | DA* | Value | Average | DA* |
| 22-Aug-16 | Sunny | Moderate | 08:15 | | Surface | 1.0 | 27.7 27.6 | 27.7 | 8.2 8.2 | 8.2 | 23.0 23.5 | 23.2 | 75.2 74.8 | 75.0 | 5.4 5.4 | 5.4 | 5.4 | 3.8 3.6 | 3.7 | | 4.6 5.4 | 5.0 | |
| | | | | 6.4 | Middle | 3.2 | 27.3 27.2 | 27.3 | 8.2 8.2 | 8.2 | 26.5 27.1 | 26.8 | 74.7 74.1 | 74.4 | 5.3 5.2 | 5.3 | 0.4 | 4.0 3.8 | 3.9 | 3.8 | 4.7 4.1 | 4.4 | 5.3 |
| | | | | | Bottom | 5.4 | 27.0 27.3 | 27.2 | 8.2 8.2 | 8.2 | 28.0 27.4 | 27.7 | 73.6 74.1 | 73.9 | 5.2 5.3 | 5.2 | 5.2 | 3.8 3.8 | 3.8 | | 5.8 7.1 | 6.5 | |
| 24-Aug-16 | Sunny | Moderate | 10:40 | | Surface | 1.0 | 28.3 28.1 | 28.2 | 8.2 8.2 | 8.2 | 24.6 24.6 | 24.6 | 78.1 77.7 | 77.9 | 5.4 5.4 | 5.4 | 5.4 | 2.1 2.1 | 2.1 | | 3.6 3.6 | 3.6 | |
| | | | | 6.7 | Middle | 3.4 | 27.7 27.4 | 27.6 | 8.2 8.2 | 8.2 | 28.1 27.9 | 28.0 | 78.0 77.3 | 77.7 | 5.4 5.3 | 5.3 | 0.4 | 2.2 2.1 | 2.2 | 2.2 | 3.0 3.1 | 3.1 | 4.0 |
| | | | | | Bottom | 5.7 | 27.7 27.1 | 27.4 | 8.1 8.1 | 8.1 | 30.3 31.0 | 30.7 | 76.6 76.4 | 76.5 | 5.3 5.3 | 5.3 | 5.3 | 2.2 2.2 | 2.2 | | 6.2 4.6 | 5.4 | |
| 26-Aug-16 | Sunny | Moderate | 15:01 | | Surface | 1.0 | 29.9 29.6 | 29.8 | 8.4 8.4 | 8.4 | 19.1 19.2 | 19.2 | 85.7 81.7 | 83.7 | 5.8 5.6 | 5.7 | 5.6 | 3.4 3.4 | 3.4 | | 3.8 4.0 | 3.9 | |
| | | | | 6.5 | Middle | 3.3 | 29.6 29.4 | 29.5 | 8.3 8.3 | 8.3 | 22.7 22.8 | 22.8 | 80.7 80.2 | 80.5 | 5.4 5.4 | 5.4 | 5.0 | 3.4 3.4 | 3.4 | 3.4 | 3.1 3.1 | 3.1 | 3.7 |
| | | | | | Bottom | 5.5 | 27.8 28.1 | 28.0 | 8.3 8.3 | 8.3 | 27.8 27.3 | 27.6 | 77.6 79.8 | 78.7 | 5.2 5.4 | 5.3 | 5.3 | 3.4 3.4 | 3.4 | | 4.1 4.2 | 4.2 | |
| 29-Aug-16 | Sunny | Moderate | 18:55 | | Surface | 1.0 | 27.3 27.3 | 27.3 | 8.4 8.4 | 8.4 | 28.6 28.6 | 28.6 | 81.3 82.3 | 81.8 | 5.6 5.7 | 5.7 | 5.7 | 4.5 4.6 | 4.6 | | 5.2 5.7 | 5.5 | |
| | | | | 6.5 | Middle | 3.3 | 27.2 27.1 | 27.1 | 8.3 8.3 | 8.3 | 30.0 30.1 | 30.1 | 81.8 80.9 | 81.4 | 5.7 5.6 | 5.7 | 5.7 | 4.6 4.5 | 4.6 | 4.6 | 6.3 5.4 | 5.9 | 6.7 |
| | | | | | Bottom | 5.5 | 27.1 27.3 | 27.2 | 8.3 8.4 | 8.4 | 30.3 30.1 | 30.2 | 80.1 81.2 | 80.7 | 5.5 5.6 | 5.6 | 5.6 | 4.5 4.5 | 4.5 | | 8.6 8.9 | 8.8 | |
| 31-Aug-16 | Sunny | Moderate | 19:51 | | Surface | 1.0 | 28.0 28.0 | 28.0 | 8.3 8.3 | 8.3 | 27.6 27.6 | 27.6 | 83.4 81.8 | 82.6 | 5.6 5.5 | 5.5 | 5.5 | 7.5 7.4 | 7.5 | _ | 7.4 7.9 | 7.7 | |
| | | | | 6.4 | Middle | 3.2 | 27.7 27.8 | 27.7 | 8.3 8.3 | 8.3 | 28.0 28.0 | 28.0 | 79.2 82.3 | 80.8 | 5.3 5.5 | 5.4 | 5.5 | 7.6 7.6 | 7.6 | 7.5 | 8.0 7.9 | 8.0 | 8.2 |
| | | | | | Bottom | 5.4 | 27.7 27.3 | 27.5 | 8.3 8.3 | 8.3 | 28.8 29.1 | 29.0 | 81.8 79.0 | 80.4 | 5.5 5.3 | 5.4 | 5.4 | 7.5 7.5 | 7.5 | | 9.4 8.4 | 8.9 | |

Remarks

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

[^] As Tropical Cyclone Warning Signal No.3 or above was hoisted, water quality monitoring (except the monitoring locations named CSA, CS6, SR10B(N) and SR10A during Mid-Ebb Tide) was stopped according to the Contingency Plan for Impact Monitoring.

^{*} DA: Depth-Averaged

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at SR10B(N) - Mid-EbbTide

| Date | Weather | Sea | Sampling | Water | Samp | Sampling | | Temperature (°C) | | pН | | Salinity (ppt) | | DO Saturation (%) | | Dissolved Oxygen (mg/L) | | | Turbidity(NTU) | | | Suspended Solids (mg/L) | | |
|------------|-----------|-------------|----------|-----------|-------------|----------|--------------|------------------|------------|---------|--------------|----------------|----------------|-------------------|------------|-------------------------|-----|------------|----------------|-----|------------|-------------------------|----------|--|
| | Condition | Condition** | Time | Depth (m) | Depth | (m) | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | DA* | Value | Average | DA* | Value | Average | DA* | |
| 1-Aug-16 | Cloudy | Moderate | 11:13 | | Surface | 1.0 | 27.0 26.8 | 26.9 | 8.6 8.6 | 8.6 | 29.4 29.8 | 29.6 | 104.6 103.5 | 104.1 | 7.1 7.0 | 7.0 | | 3.5 3.5 | 3.5 | | 4.9 4.7 | 4.8 | | |
| | | | | 4.9 | Middle | - | - | - | - | - | - | - | - | - | - | - | 7.0 | - | - | 3.6 | - | - | 5.7 | |
| | | | | | Bottom | 3.9 | 26.7 26.8 | 26.8 | 8.6 8.6 | 8.6 | 30.9 30.1 | 30.5 | 96.9 104.9 | 100.9 | 6.5 7.1 | 6.8 | 6.8 | 3.5 3.7 | 3.6 | | 5.8 7.2 | 6.5 | 1 | |
| 3-Aug-16 | Cloudy | Moderate | 14:05 | | | | 26.0 | | 8.2 | | 27.3 | | 84.8 | 0.50 | 6.0 | | | 7.1 | | | 7.7 | l | | |
| 5 1 mg 1 5 | 5.222, | | | | Surface | 1.0 | 26.0 | 26.0 | 8.2 | 8.2 | 27.3 | 27.3 | 85.8 | 85.3 | 6.0 | 6.0 | 6.0 | 7.5 | 7.3 | | 7.1 | 7.4 | ا ا ا | |
| | | | | 5.3 | Middle | - | 25.7 | - | 8.2 | - | 28.8 | - | - 85.0 | - | 6.0 | - | | 7.3 | - | 7.4 | 7.1 | - | 7.5 | |
| | | | 45.05 | | Bottom | 4.3 | 26.0 | 25.8 | 8.2 | 8.2 | 28.1 | 28.4 | 85.5 | 85.3 | 6.0 | 6.0 | 6.0 | 7.4 | 7.4 | | 7.8 | 7.5 | | |
| 5-Aug-16 | Sunny | Moderate | 15:05 | | Surface | 1.0 | 27.0 27.3 | 27.2 | 8.1 8.1 | 8.1 | 24.2 23.9 | 24.0 | 78.0 78.9 | 78.5 | 5.4 5.4 | 5.4 | 5.4 | 4.6 4.7 | 4.7 | | 3.6 3.7 | 3.7 | <u> </u> | |
| | | | | 4.9 | Middle | - | - | - | - | - | - | - | - | - | - | - | | - | - | 4.7 | - | - | 3.6 | |
| | | | | | Bottom | 3.9 | 27.0 26.4 | 26.7 | 8.1 8.1 | 8.1 | 25.2 25.8 | 25.5 | 78.1 77.7 | 77.9 | 5.3 5.3 | 5.3 | 5.3 | 4.8 4.6 | 4.7 | | 3.4 3.4 | 3.4 | | |
| 8-Aug-16 | Sunny | Moderate | 17:10 | | Surface | 1.0 | 28.9 28.9 | 28.9 | 8.1 8.1 | 8.1 | 19.8 19.8 | 19.8 | 94.6 96.3 | 95.5 | 6.5 6.7 | 6.6 | | 2.9 2.9 | 2.9 | | 5.1 5.2 | 5.2 | | |
| | | | | 5.0 | Middle | - | - | - | - | - | - | - | - | - | - | - | 6.6 | - | - | 3.0 | - | - | 5.7 | |
| | | | | | Bottom | 4.0 | 28.7 | 28.8 | 8.1 8.1 | 8.1 | 19.9 19.8 | 19.9 | 93.1 95.5 | 94.3 | 6.4 6.6 | 6.5 | 6.5 | 2.9 | 3.0 | | 5.2 6.9 | 6.1 | | |
| 10-Aug-16 | Rainy | Moderate | 18:22 | | Surface | 1.0 | 27.6 | 27.6 | 8.3 | 8.3 | 21.5 | 21.6 | 80.9 | 81.5 | 5.7 | 5.7 | | 1.2 | 1.2 | | 1.6 | 1.5 | | |
| | | | | 4.9 | Middle | _ | 27.6 | _ | 8.3 | _ | 21.6 | _ | 82.0 | _ | 5.7 | _ | 5.7 | 1.2 | _ | 1.2 | 1.3 | _ | 1.5 | |
| | | | | | Bottom | 3.9 | 27.7 | 27.4 | 8.3 | 8.3 | 24.0 | 24.2 | 81.7 | 81.5 | 5.6 | 5.6 | 5.6 | 1.1 | 1.2 | | 1.4 | 1.4 | | |
| 10.1 | | | 07.11 | | Bottom | 3.9 | 27.1 | 27.4 | 8.3 | 0.5 | 24.5 | 24.2 | 81.3 | 01.5 | 5.6 | 5.0 | 3.0 | 1.2 | 1.2 | | 1.4 | 1.4 | | |
| 12-Aug-16 | Rainy | Moderate | 07:11 | | Surface | 1.0 | 26.9 26.9 | 26.9 | 8.2 8.3 | 8.3 | 23.4 23.5 | 23.5 | 74.8 76.8 | 75.8 | 5.2 5.3 | 5.3 | 5.3 | 1.6 1.6 | 1.6 | | 2.9 2.5 | 2.7 | 1 | |
| | | | | 4.8 | Middle | - | - | - | - | - | - | - | - | - | - | - | | - | - | 1.6 | - | - | 2.7 | |
| | | | | | Bottom | 3.8 | 26.8 26.6 | 26.7 | 8.2 8.2 | 8.2 | 25.7 26.0 | 25.9 | 75.1 75.8 | 75.5 | 5.2 5.3 | 5.3 | 5.3 | 1.6 1.5 | 1.6 | | 2.4 2.9 | 2.7 | | |
| 15-Aug-16 | Cloudy | Moderate | 10:02 | | Surface | 1.0 | 26.6 26.6 | 26.6 | 8.3 8.3 | 8.3 | 26.9 26.5 | 26.7 | 72.8 77.0 | 74.9 | 5.0 5.3 | 5.2 | | 2.7 2.7 | 2.7 | | 5.6 4.2 | 4.9 | | |
| | | | | 5.1 | Middle | - | - | - | - | - | - | - | - | - | | - | 5.2 | - | - | 2.8 | - | - | 5.6 | |
| | | | | | Bottom | 4.1 | 26.3 25.8 | 26.1 | 8.3 8.2 | 8.2 | 29.3 30.6 | 29.9 | 75.8 71.7 | 73.8 | 5.2 4.9 | 5.0 | 5.0 | 2.8 2.8 | 2.8 | | 6.4 6.1 | 6.3 | | |
| 17-Aug-16 | Rainy | Moderate | 11:20 | | Surface | 1.0 | 25.7 | 25.7 | 8.2 | 8.2 | 29.8 | 29.7 | 74.9 | 75.1 | 5.2 | 5.2 | | 1.3 | 1.4 | | 5.8 5.4 | 5.6 | | |
| | | | | 5.3 | Middle | - | 25.7 | - | 8.2 | - | 29.6 | - | 75.2 - | - | 5.2 | - | 5.2 | 1.4 | - | 1.6 | - 5.4 | - | 7.0 | |
| | | | | | Bottom | 4.3 | 25.4 | 25.3 | 8.2 | 8.2 | 31.8 | 32.2 | 74.2 | 74.5 | 5.1 | 5.1 | 5.1 | 1.6 | 1.7 | | 8.6 | 8.4 | ' | |
| 19-Aug-16 | Fine | Moderate | 14:26 | | | | 25.2 26.3 | 26.3 | 8.2 8.2 | 8.2 | 32.6 27.8 | | 74.7 78.2 | 78.4 | 5.2 5.4 | 5.4 | | 1.8 6.7 | 6.6 | | 7.0 | 7.4 | \vdash | |
| | | | | F.0 | Surface 1.0 | 1.0 | 26.4 | 20.0 | 8.2 | 0.2 | 27.8 27.7 | | 78.6 - | 70.4 | 5.5 | 5.4 | 5.4 | 6.5 | | 6.6 | 7.7 | 7.4 | | |
| | | | | 5.0 | Middle | - | 26.3 | - | 8.2 | - | 27.9 | - | 78.3 | - | - 5.4 | - | | 6.5 | - | 6.6 | 10.0 | | 8.9 | |
| | | | | | Bottom | 4.0 | 26.1 | 26.2 | 8.2 | 8.2 | 28.1 | 28.0 | 77.9 | 78.1 | 5.4 | 5.4 | 5.4 | 6.5 | 6.5 | | 10.5 | 10.3 | | |

Remarks:

* DA: Depth-Averaged

** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at SR10B(N) - Mid-EbbTide

| Date | Weather | Sea | Sampling | Water | Samp | ling | Temper | ature (°C) | ı | Н | Salini | ty (ppt) | DO Satu | ration (%) | Dissol | ved Oxygen | (mg/L) | 1 | urbidity(NT | U) | Suspe | nded Solids | (mg/L) |
|-----------|-----------|-------------|----------|-----------|---------|------|--------------|------------|------------|---------|--------------|----------|--------------|------------|------------|------------|--------|--------------|-------------|------|--------------|-------------|--------|
| | Condition | Condition** | Time | Depth (m) | Depth | (m) | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | DA* | Value | Average | DA* | Value | Average | DA* |
| 22-Aug-16 | Sunny | Moderate | 16:16 | | Surface | 1.0 | 28.1 28.2 | 28.1 | 8.2 8.2 | 8.2 | 22.0 22.1 | 22.1 | 80.5 79.5 | 80.0 | 5.7 5.7 | 5.7 | 5.7 | 3.7 3.8 | 3.8 | | 4.0 3.6 | 3.8 | |
| | | | | 4.9 | Middle | - | - | - | - | - | - | - | - | - | - | - | 0 | - | - | 3.8 | - | - | 4.4 |
| | | | | | Bottom | 3.9 | 27.9 27.7 | 27.8 | 8.2 8.1 | 8.2 | 24.2 24.3 | 24.2 | 79.3 79.7 | 79.5 | 5.6 5.7 | 5.7 | 5.7 | 3.8 3.8 | 3.8 | | 5.1 4.6 | 4.9 | |
| 24-Aug-16 | Sunny | Moderate | 18:06 | | Surface | 1.0 | 29.3 29.0 | 29.2 | 8.3 8.3 | 8.3 | 20.8 20.9 | 20.9 | 75.9 77.2 | 76.6 | 5.2 5.3 | 5.2 | 5.2 | 2.8 2.7 | 2.8 | | 1.6 1.9 | 1.8 | |
| | | | | 5.1 | Middle | 1 | | - | | - | | - | | - | | - | 5.2 | - | - | 2.8 | - | - | 1.7 |
| | | | | | Bottom | 4.1 | 28.8 27.8 | 28.3 | 8.3 8.2 | 8.3 | 23.7 25.4 | 24.6 | 76.6 75.4 | 76.0 | 5.2 5.1 | 5.2 | 5.2 | 2.8 2.8 | 2.8 | | 1.5 1.5 | 1.5 | |
| 26-Aug-16 | Sunny | Moderate | 06:30 | | Surface | 1.0 | 28.7 28.7 | 28.7 | 8.2 8.2 | 8.2 | 23.7 23.6 | 23.6 | 81.7 81.6 | 81.7 | 5.6 5.6 | 5.6 | 5.6 | 3.1 3.1 | 3.1 | | 4.7 4.8 | 4.8 | |
| | | | | 5.1 | Middle | - | - | - | - | - | - | - | - | - | - | - | 5.6 | - | - | 3.2 | - | - | 5.0 |
| | | | | | Bottom | 4.1 | 28.7 28.4 | 28.6 | 8.2 8.2 | 8.2 | 24.5 25.9 | 25.2 | 81.6 81.5 | 81.6 | 5.5 5.5 | 5.5 | 5.5 | 3.2 3.1 | 3.2 | | 4.6 5.7 | 5.2 | |
| 29-Aug-16 | Sunny | Moderate | 10:05 | | Surface | 1.0 | 27.7 27.5 | 27.6 | 8.3 8.3 | 8.3 | 27.9 27.7 | 27.8 | 83.7 83.7 | 83.7 | 5.7 5.7 | 5.7 | 5.7 | 2.6 2.6 | 2.6 | | 8.6 7.1 | 7.9 | |
| | | | | 5.3 | Middle | - | - | - | - | - | - | - | - | - | - | - | 5.7 | - | - | 2.7 | - | - | 8.3 |
| | | | | | Bottom | 4.3 | 27.0 27.3 | 27.1 | 8.2 8.2 | 8.2 | 32.4 31.4 | 31.9 | 84.1 84.1 | 84.1 | 5.7 5.7 | 5.7 | 5.7 | 2.6 2.7 | 2.7 | | 8.8 8.4 | 8.6 | |
| 31-Aug-16 | Sunny | Moderate | 11:34 | | Surface | 1.0 | 27.5 27.4 | 27.5 | 8.4 8.4 | 8.4 | 30.5 30.6 | 30.6 | 82.4 80.5 | 81.5 | 5.5 5.3 | 5.4 | 5.4 | 10.1 10.0 | 10.1 | | 8.8 8.2 | 8.5 | |
| | | | | 5.3 | Middle | 1 | - | - | - | - | | - | - | - | 1 1 | - | 5.4 | - | - | 10.3 | - | - | 10.0 |
| | | | | | Bottom | 4.3 | 27.2 27.4 | 27.3 | 8.5 8.4 | 8.4 | 31.5 31.0 | 31.3 | 81.0 79.8 | 80.4 | 5.4 5.3 | 5.3 | 5.3 | 10.2 10.6 | 10.4 | | 11.8 10.9 | 11.4 | |

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

^{*} DA: Depth-Averaged

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at SR10B(N) - Mid-FloodTide

| Date | Weather | Sea | Sampling | Water | Sampl | Sampling | | Temperature (°C) | | pН | | Salinity (ppt) | | DO Saturation (%) | | Dissolved Oxygen (mg/L) | | | Turbidity(NTU) | | | Suspended Solids (mg/L) | | |
|-----------|-----------|-------------|----------|-----------|---------|----------|--------------|------------------|------------|---------|--------------|----------------|--------------|-------------------|------------|-------------------------|-----|------------|----------------|----------|-------------|-------------------------|------------|--|
| | Condition | Condition** | Time | Depth (m) | Depth | (m) | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | DA* | Value | Average | DA* | Value | Average | DA* | |
| 1-Aug-16^ | Cloudy | Moderate | - | | Surface | | | - | - | - | | - | - | - | - | | | - | - | | - | - | | |
| | | | | - | Middle | - | - | - | - | - | - | - | - | - | - | - | - | - | - | <u>-</u> | - | - | 1 <u>-</u> | |
| | | | | | Bottom | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | - | - | | |
| 3-Aug-16 | Cloudy | Moderate | 05:34 | | Surface | 1.0 | 25.0 | 25.0 | 8.2 | 8.2 | 34.2 | 34.0 | 82.8 | 80.5 | 5.7 | 5.5 | | 5.3 | 5.2 | | 6.3 | 6.3 | | |
| | | | | 5.1 | Middle | 1.0 | 24.9 | - | 8.2 | - | 33.7 | - | 78.1 - | - | 5.4 | 5.5 | 5.5 | 5.1 | 5.2 | 5.3 | 6.3 | - | 7.2 | |
| | | | | 5.1 | | - | 24.6 | | 8.2 | | 36.3 | | - 78.8 | | - 5.5 | - | | 5.2 | - | 5.3 | 7.7 | | 1.2 | |
| 5 A.v. 40 | C | Madasata | 00.50 | | Bottom | 4.1 | 24.8 | 24.7 | 8.2 | 8.2 | 35.5 | 35.9 | 77.5 | 78.2 | 5.4 | 5.4 | 5.4 | 5.3 | 5.3 | | 8.3 | 8.0 | | |
| 5-Aug-16 | Sunny | Moderate | 06:52 | | Surface | 1.0 | 25.8 25.8 | 25.8 | 8.1 8.1 | 8.1 | 27.0 27.4 | 27.2 | 80.1 76.8 | 78.5 | 5.6 5.4 | 5.5 | 5.5 | 2.9 3.1 | 3.0 | | 5.3 5.3 | 5.3 | | |
| | | | | 4.8 | Middle | - | | - | - | - | - | - | - | - | - | - | | - | - | 3.0 | - | - | 4.6 | |
| | | | | | Bottom | 3.8 | 25.6 25.9 | 25.7 | 8.1 8.1 | 8.1 | 29.4 29.0 | 29.2 | 78.0 77.3 | 77.7 | 5.5 5.4 | 5.5 | 5.5 | 2.9 3.0 | 3.0 | | 4.1 3.6 | 3.9 | | |
| 8-Aug-16 | Sunny | Moderate | 08:51 | | Surface | 1.0 | 27.8 27.8 | 27.8 | 8.0 8.0 | 8.0 | 20.7 20.7 | 20.7 | 79.7 81.2 | 80.5 | 5.6 5.7 | 5.6 | | 1.8 1.9 | 1.9 | | 4.0 4.0 | 4.0 | | |
| | | | | 5.2 | Middle | - | - | - | - | - | - | - | - | - | - | - | 5.6 | - | - | 1.9 | - | - | 4.0 | |
| | | | | Bottom | 4.2 | 26.9 | 27.3 | 8.0 | 8.0 | 25.4 | 25.0 | 80.0 | 80.3 | 5.5 | 5.5 | 5.5 | 1.8 | 1.8 | | 4.0 | 3.9 | | | |
| 10-Aug-16 | Rainy | Moderate | 10:53 | | Surface | 1.0 | 27.8 27.6 | 27.6 | 8.0 8.3 | 8.3 | 24.6 21.4 | 21.2 | 80.5 81.9 | 82.5 | 5.5 5.8 | 5.9 | | 1.8 | 1.8 | | 3.7 2.1 | 2.1 | | |
| | | | | 5.3 | Middle | | 27.6 | | 8.3 | _ | 21.1 | | 83.1 | 5=10 | 5.9 - | | 5.9 | 1.8 | | 1.8 | 2.1 | | 2.4 | |
| | | | | 3.3 | | - | 26.9 | - | 8.2 | | 28.7 | - | - 82.3 | - | - 5.7 | - | | 1.8 | - | 1.0 | 2.9 | | 2.4 | |
| 12-Aug-16 | Fine | Moderate | 15:59 | | Bottom | 4.3 | 26.5 27.6 | 26.7 | 8.2 8.3 | 8.2 | 29.7 21.4 | 29.2 | 80.7 76.4 | 81.5 | 5.6 5.3 | 5.6 | 5.6 | 1.8 | 1.8 | l | 2.2 | 2.6 | | |
| 12-Aug-10 | rine | Woderate | 13.39 | | Surface | 1.0 | 27.7 | 27.6 | 8.3 | 8.3 | 21.5 | 21.4 | 77.3 | 76.9 | 5.4 | 5.4 | 5.4 | 1.2 | 1.2 | | 3.0 | 2.9 |] | |
| | | | | 5.2 | Middle | - | | - | - | - | - | - | - | - | - | - | | - | - | 1.2 | - | - | 3.2 | |
| | | | | | Bottom | 4.2 | 27.0 26.0 | 26.5 | 8.2 8.2 | 8.2 | 26.5 27.4 | 27.0 | 77.0 76.3 | 76.7 | 5.3 5.3 | 5.3 | 5.3 | 1.1 1.1 | 1.1 | | 3.1 3.7 | 3.4 | | |
| 15-Aug-16 | Cloudy | Moderate | 19:06 | | Surface | 1.0 | 26.3 26.4 | 26.3 | 8.3 8.4 | 8.3 | 25.3 24.3 | 24.8 | 80.1 85.8 | 83.0 | 5.5 5.9 | 5.7 | | 3.0 3.0 | 3.0 | | 4.5 4.3 | 4.4 | | |
| | | | | 5.2 | Middle | - | | - | - | - | - | - | - | - | - | - | 5.7 | - | - | 3.0 | - | - | 4.9 | |
| | | | | | Bottom | 4.2 | 25.4 26.1 | 25.8 | 8.3 8.3 | 8.3 | 30.1 28.3 | 29.2 | 78.9 78.4 | 78.7 | 5.5 5.5 | 5.5 | 5.5 | 2.8 | 2.9 | | 5.6 5.2 | 5.4 | | |
| 17-Aug-16 | Rainy | Moderate | 20:15 | | Surface | 1.0 | 25.5 | 25.4 | 8.3 | 8.3 | 29.0 | 29.2 | 80.8 | 80.5 | 5.6 | 5.6 | | 4.2 | 4.2 | | 5.3 | 4.8 | | |
| | | | | 5.3 | Middle | | 25.4 | | 8.3 | | 29.3 | | 80.2 | | 5.6 - | | 5.6 | 4.1 | - | 4.4 | 4.2 | | 4.7 | |
| | | | | 3.5 | | 4.3 | 25.3 | | 8.3 | 8.3 | 30.2 | | - 79.5 | | - 5.5 | - | 5.5 | 4.5 | 4.0 | 7.7 | 4.1 | 4.5 | 7.7 | |
| 19-Aug-16 | Fine | Moderate | 06:03 | | Bottom | | 25.4 25.9 | 25.4 | 8.3 8.1 | | 30.2 29.4 | 30.2 | 78.8 77.8 | 79.2 | 5.5 5.4 | 5.5 | 5.5 | 4.6 4.5 | 4.6 | | 4.9 10.0 | | | |
| 13-Aug-10 | 11116 | Moderate | 00.03 | | Surface | 1.0 | 25.9 | 25.9 | 8.1 | 8.1 | 29.1 | 29.3 | 76.4 | 77.1 | 5.3 | 5.3 | 5.3 | 4.6 | 4.6 | | 8.9 | 9.5 | | |
| | | | | 5.3 | Middle | - | - | - | - | - | - | - | - | - | - | - | | - | - | 4.6 | - | - | 9.6 | |
| | | | | | Bottom | 4.3 | 25.6 25.6 | 25.6 | 8.0 8.1 | 8.1 | 31.5 30.9 | 31.2 | 76.5 76.1 | 76.3 | 5.3 5.3 | 5.3 | 5.3 | 4.6 4.5 | 4.6 | | 10.4 9.0 | 9.7 | | |

Remarks:

* DA: Depth-Averaged

** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at SR10B(N) - Mid-FloodTide

| Date | Weather | Sea | Sampling | Water | Samp | ling | Tempera | ature (°C) | | ρΗ | Salini | ty (ppt) | DO Satu | ration (%) | Dissol | ved Oxygen | (mg/L) | Т | urbidity(NT | J) | Susper | nded Solids | (mg/L) |
|-----------|-----------|-------------|----------|-----------|---------|------|--------------|------------|------------|---------|--------------|----------|--------------|------------|------------|------------|--------|------------|-------------|-----|-------------|-------------|----------|
| | Condition | Condition** | Time | Depth (m) | Depth | (m) | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | DA* | Value | Average | DA* | Value | Average | DA* |
| 22-Aug-16 | Sunny | Moderate | 08:07 | | Surface | 1.0 | 27.7 27.4 | 27.5 | 8.3 8.3 | 8.3 | 24.1 24.6 | 24.4 | 76.5 78.2 | 77.4 | 5.5 5.5 | 5.5 | 5.5 | 4.0 4.2 | 4.1 | | 4.8 5.0 | 4.9 | |
| | | | | 4.9 | Middle | - | - | - | - | - | - | - | - | - | - | - | 0.0 | - | - | 4.2 | - | - | 4.9 |
| | | | | | Bottom | 3.9 | 27.4 27.1 | 27.3 | 8.2 8.2 | 8.2 | 27.7 28.4 | 28.0 | 76.1 76.5 | 76.3 | 5.4 5.5 | 5.4 | 5.4 | 4.2 4.2 | 4.2 | | 4.0 5.8 | 4.9 | |
| 24-Aug-16 | Sunny | Moderate | 10:31 | | Surface | 1.0 | 28.0 27.9 | 27.9 | 8.2 8.2 | 8.2 | 25.7 25.6 | 25.7 | 77.8 77.9 | 77.9 | 5.4 5.4 | 5.4 | 5.4 | 2.2 2.2 | 2.2 | | 3.5 2.7 | 3.1 | |
| | | | | 5.1 | Middle | - | | - | | - | | - | - | - | | - | 0.4 | - | - | 2.2 | - | - | 3.6 |
| | | | | | Bottom | 4.1 | 27.7 27.4 | 27.6 | 8.2 8.2 | 8.2 | 29.7 30.8 | 30.2 | 77.8 78.3 | 78.1 | 5.3 5.4 | 5.3 | 5.3 | 2.2 2.2 | 2.2 | | 3.8 4.2 | 4.0 | |
| 26-Aug-16 | Sunny | Moderate | 15:11 | | Surface | 1.0 | 29.9 29.7 | 29.8 | 8.4 8.3 | 8.4 | 19.3 19.4 | 19.4 | 82.5 86.7 | 84.6 | 5.6 5.9 | 5.8 | 5.8 | 2.1 2.1 | 2.1 | | 4.6 4.2 | 4.4 | |
| | | | | 5.2 | Middle | i | | - | | - | | - | - | - | | - | 5.0 | - | - | 2.2 | - | - | 4.9 |
| | | | | | Bottom | 4.2 | 28.0 29.4 | 28.7 | 8.3 8.3 | 8.3 | 24.9 24.3 | 24.6 | 81.1 85.0 | 83.1 | 5.5 5.7 | 5.6 | | 2.1 2.2 | 2.2 | | 5.4 5.1 | 5.3 | |
| 29-Aug-16 | Sunny | Moderate | 19:06 | | Surface | 1.0 | 27.2 27.2 | 27.2 | 8.3 8.4 | 8.4 | 28.8 28.7 | 28.8 | 81.8 81.6 | 81.7 | 5.7 5.7 | 5.7 | 5.7 | 4.6 4.5 | 4.6 | | 6.5 6.2 | 6.4 | |
| | | | | 5.0 | Middle | • | | - | | - | | - | - | - | | - | 5.7 | - | - | 4.6 | - | - | 6.3 |
| | | | | | Bottom | 4.0 | 27.2 27.2 | 27.2 | 8.3 8.3 | 8.3 | 29.9 29.9 | 29.9 | 82.1 82.3 | 82.2 | 5.7 5.7 | 5.7 | 5.7 | 4.5 4.5 | 4.5 | | 6.3 6.1 | 6.2 | |
| 31-Aug-16 | Sunny | Moderate | 20:01 | | Surface | 1.0 | 28.0 28.0 | 28.0 | 8.3 8.3 | 8.3 | 27.8 27.8 | 27.8 | 85.3 85.1 | 85.2 | 5.7 5.7 | 5.7 | 5.7 | 6.8 6.7 | 6.8 | | 9.5 10.2 | 9.9 | |
| | | | | 5.5 | Middle | e - | 1 | - | | - | | - | - | - | | - | 5.1 | - | - | 6.9 | - | - | 9.9 |
| | | | | | Bottom | 4.5 | 28.0 27.8 | 27.9 | 8.3 8.3 | 8.3 | 27.9 28.3 | 28.1 | 85.3 85.4 | 85.4 | 5.7 5.7 | 5.7 | 5.7 | 6.9 6.8 | 6.9 | | 9.7 10.1 | 9.9 | <u> </u> |

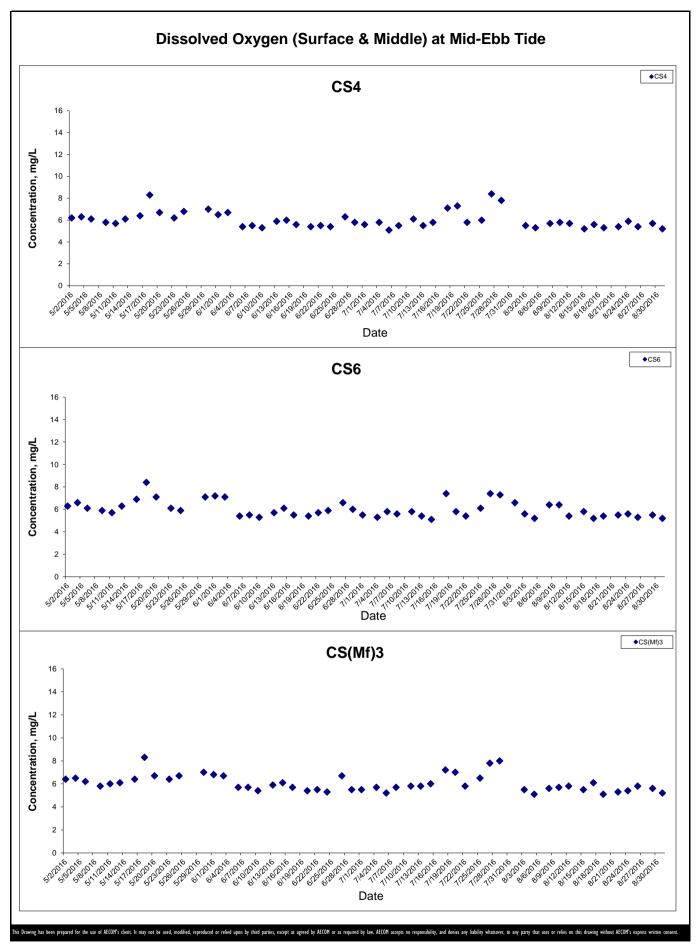
Remarks

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

[^] As Tropical Cyclone Warning Signal No.3 or above was hoisted, water quality monitoring (except the monitoring locations named CSA, CS6, SR10B(N) and SR10A during Mid-Ebb Tide) was stopped according to the Contingency Plan for Impact Monitoring.

^{*} DA: Depth-Averaged

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

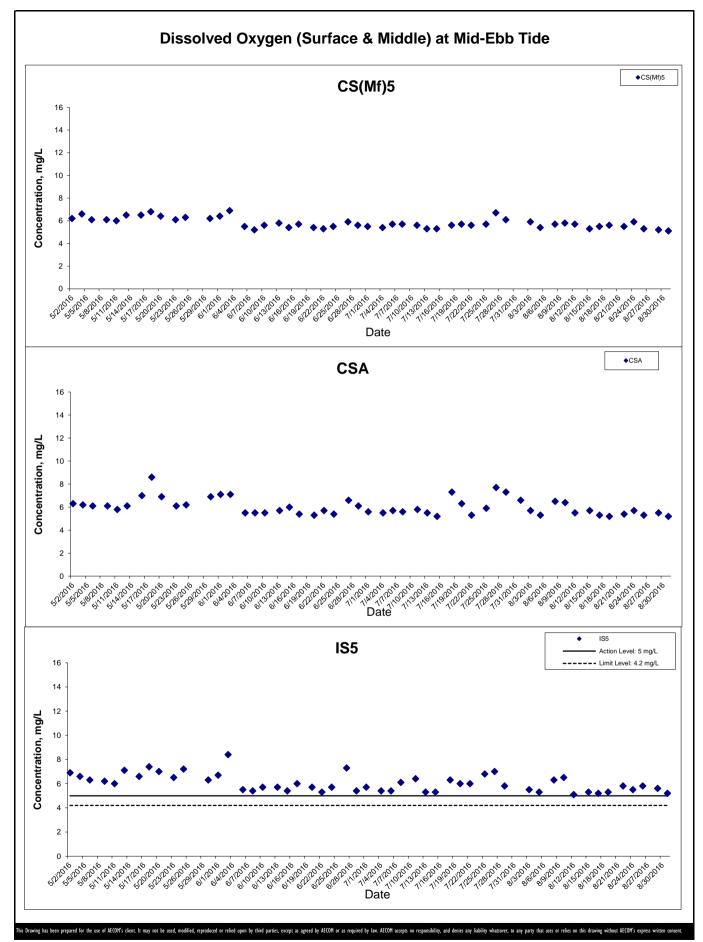


AECOM

- RECLAMATION WORKS

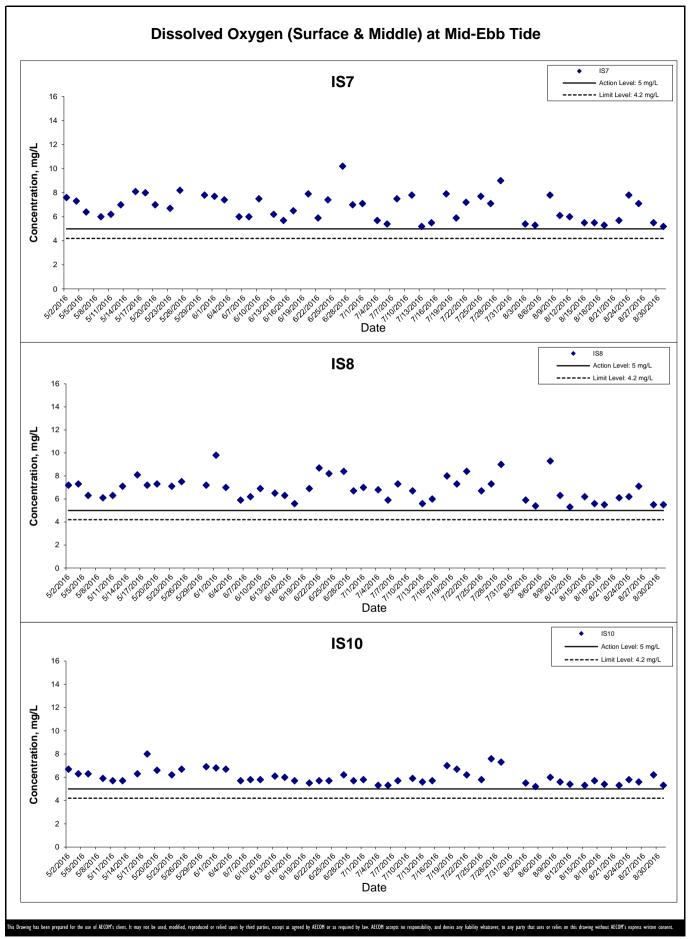
Graphical Presentation of Impact Water Quality

Monitoring Results



- RECLAMATION WORKS

AECOM



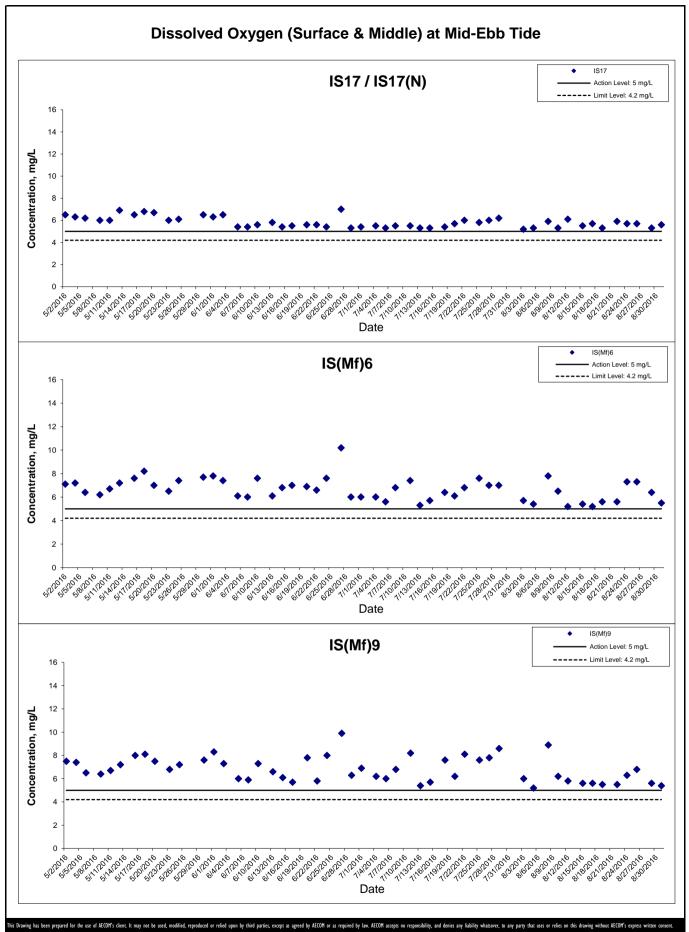
Project No.: 60249820

AECOM

- RECLAMATION WORKS Graphical Presentation of Impact Water Quality

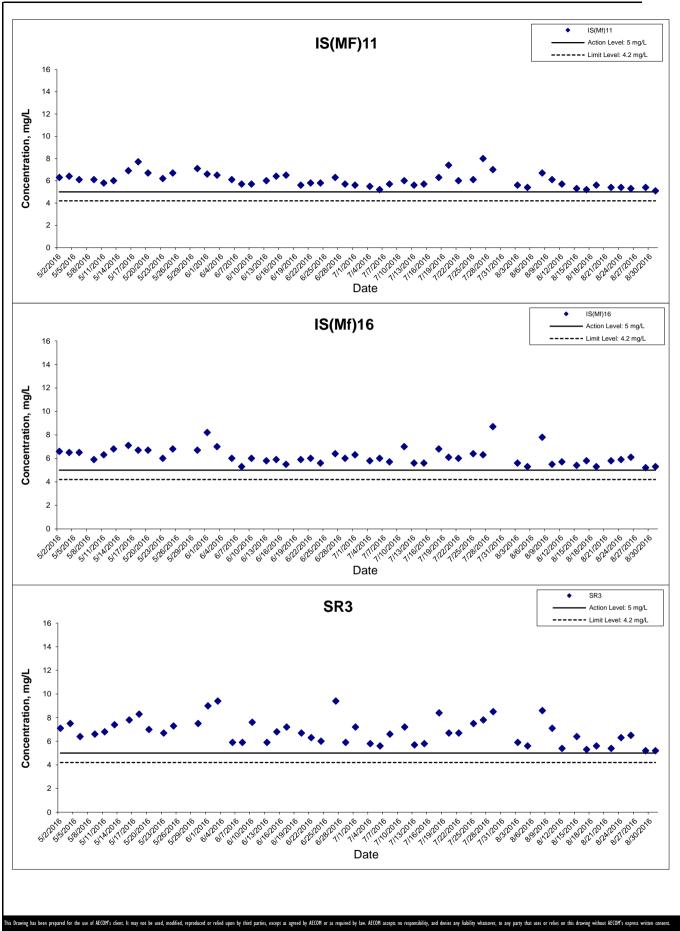
Monitoring Results

Date: September 2016



- RECLAMATION WORKS

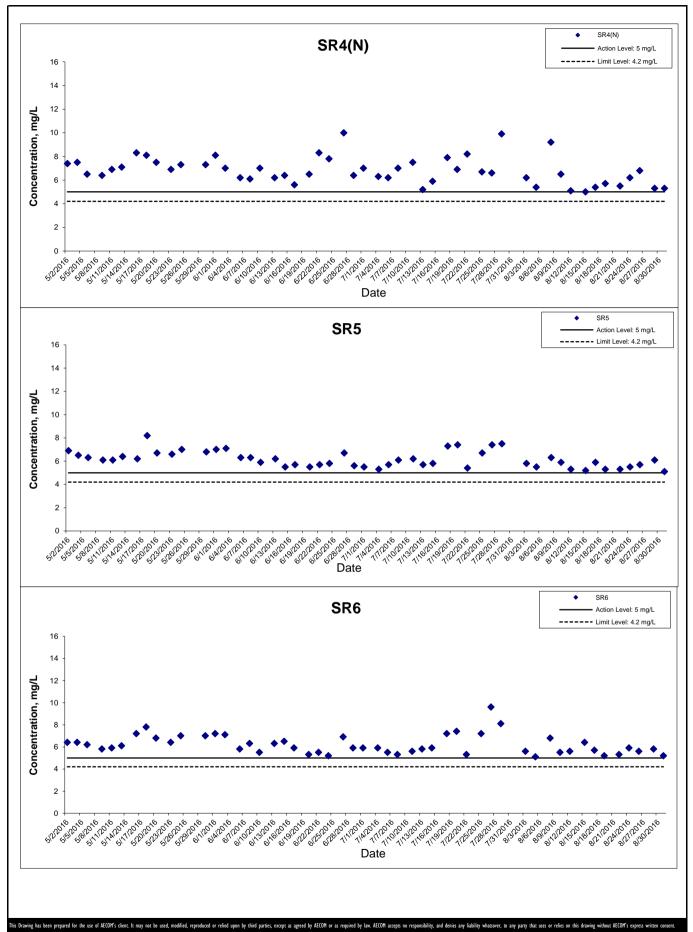
Graphical Presentation of Impact Water Quality
Monitoring Results



AECOM

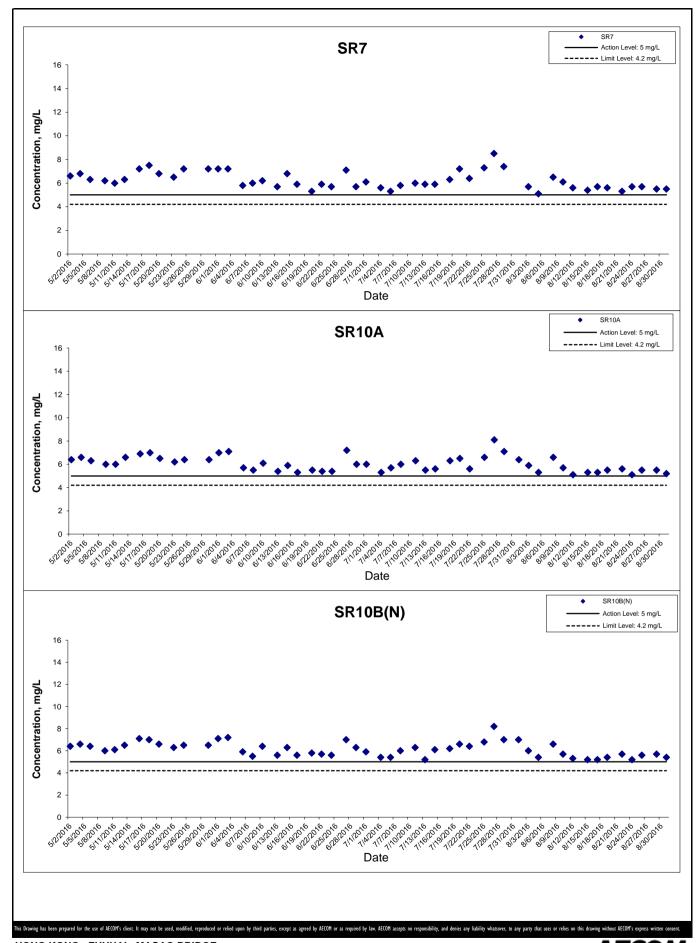
- RECLAMATION WORKS Graphical Presentation of Impact Water Quality

Monitoring Results



- RECLAMATION WORKS

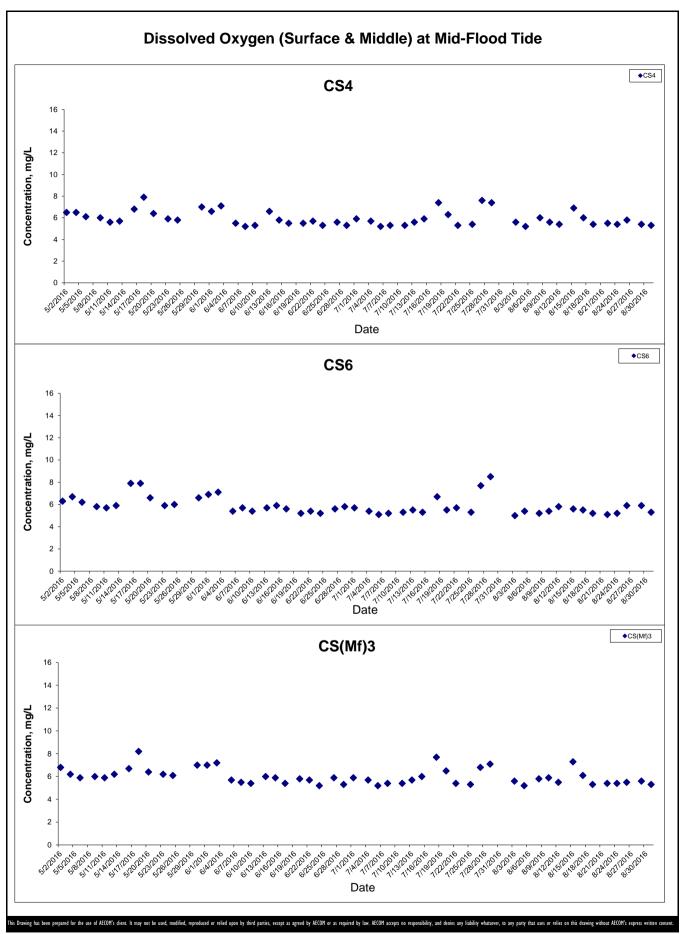
Graphical Presentation of Impact Water Quality
Monitoring Results



AECO/

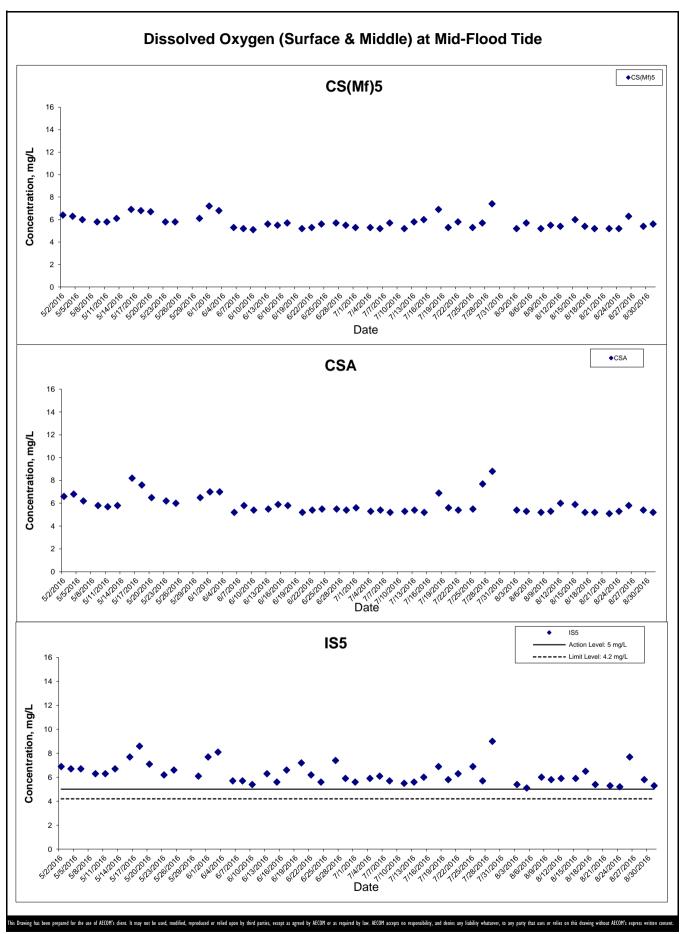
- RECLAMATION WORKS Graphical Presentation of Impact Water Quality

Monitoring Results



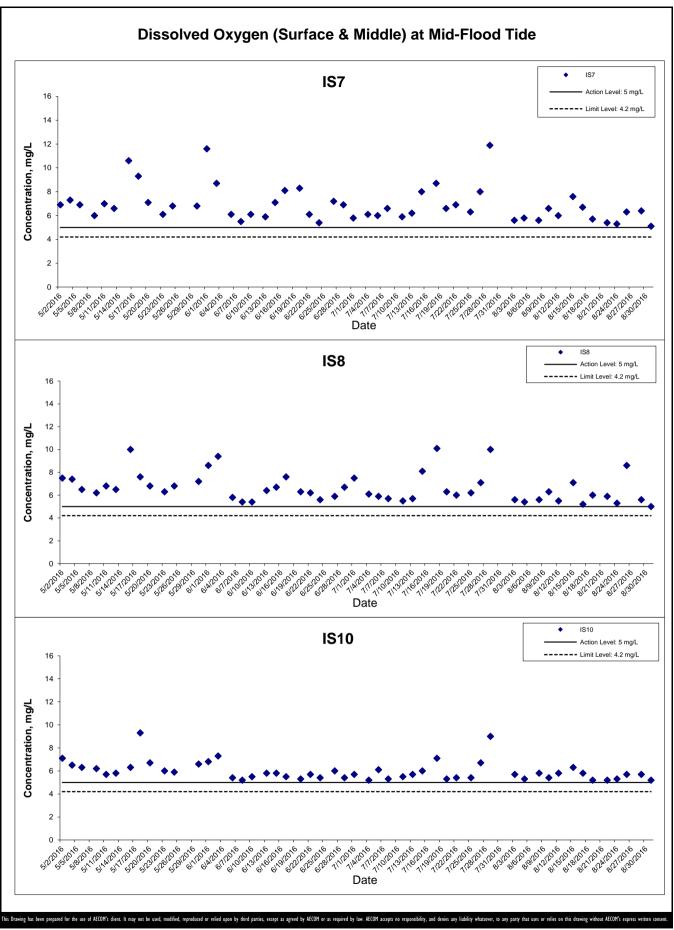
HONG KONG - ZHUHAI - MACAO BRIDGE
HONG KONG BOUNDARY CROSSING FACILITIES
- RECLAMATION WORKS
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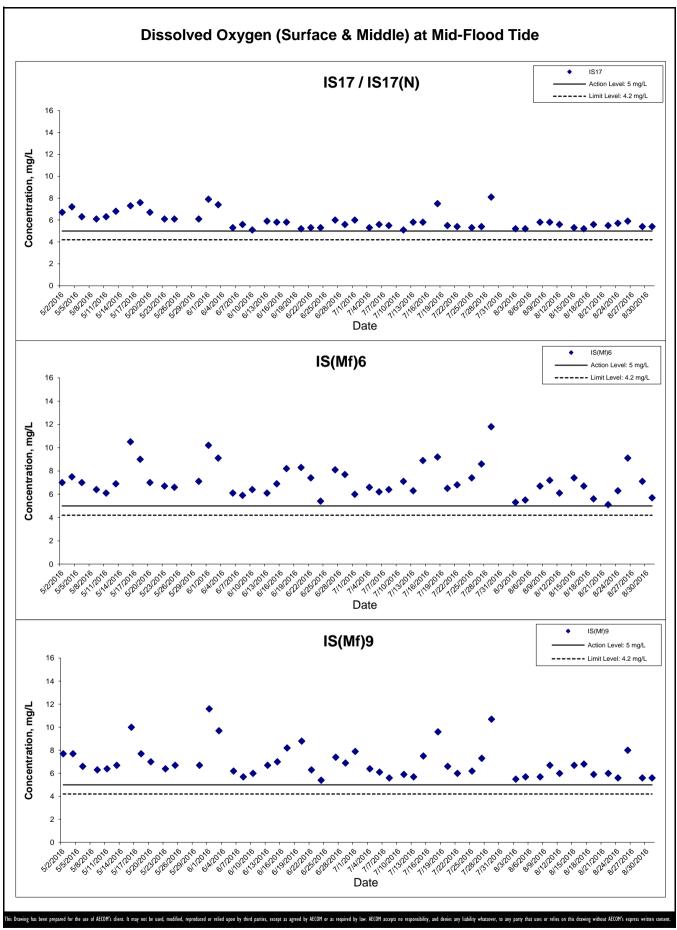
HONG KONG - ZHUHAI - MACAO BRIDGE
HONG KONG BOUNDARY CROSSING FACILITIES
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Graphical Presentation of Impact Water Quality
Monitoring Results



HONG KONG - ZHUHAI - MACAO BRIDGE HONG KONG BOUNDARY CROSSING FACILITIES - RECLAMATION WORKS

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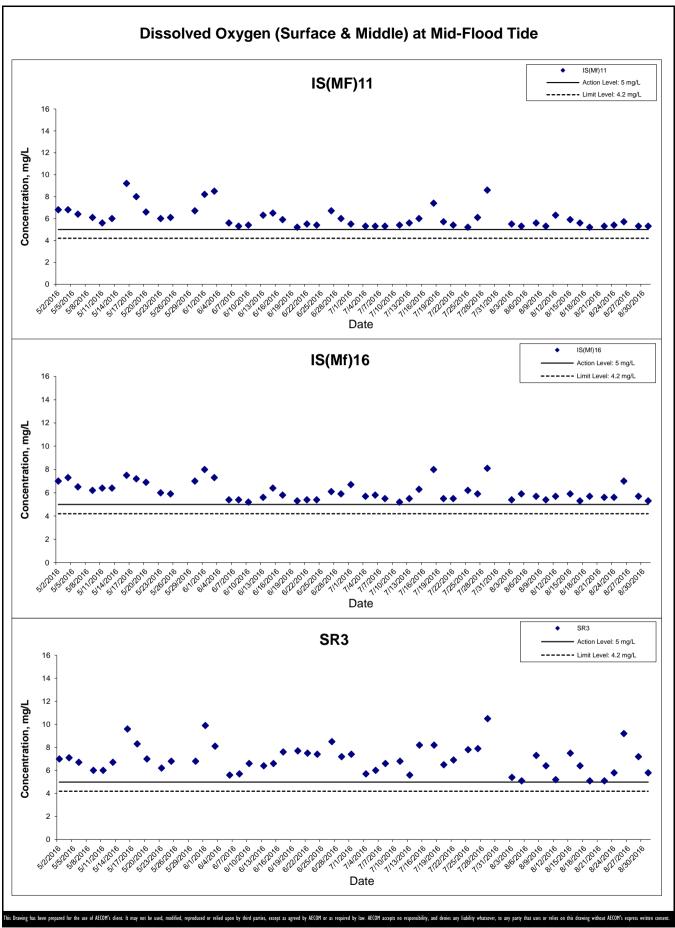


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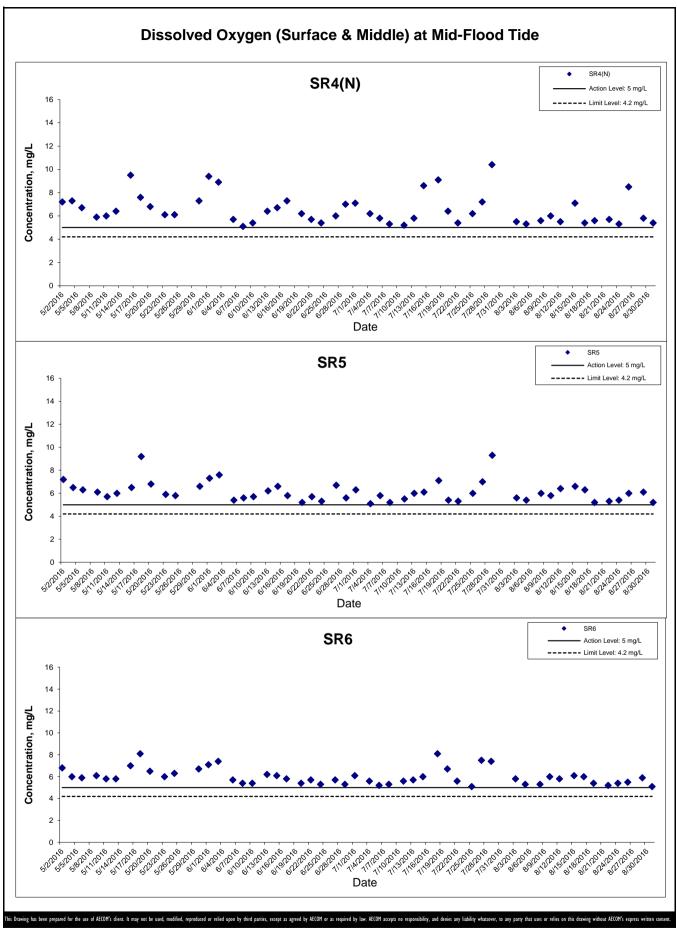
Project No.: 60249820 Date: September 2016



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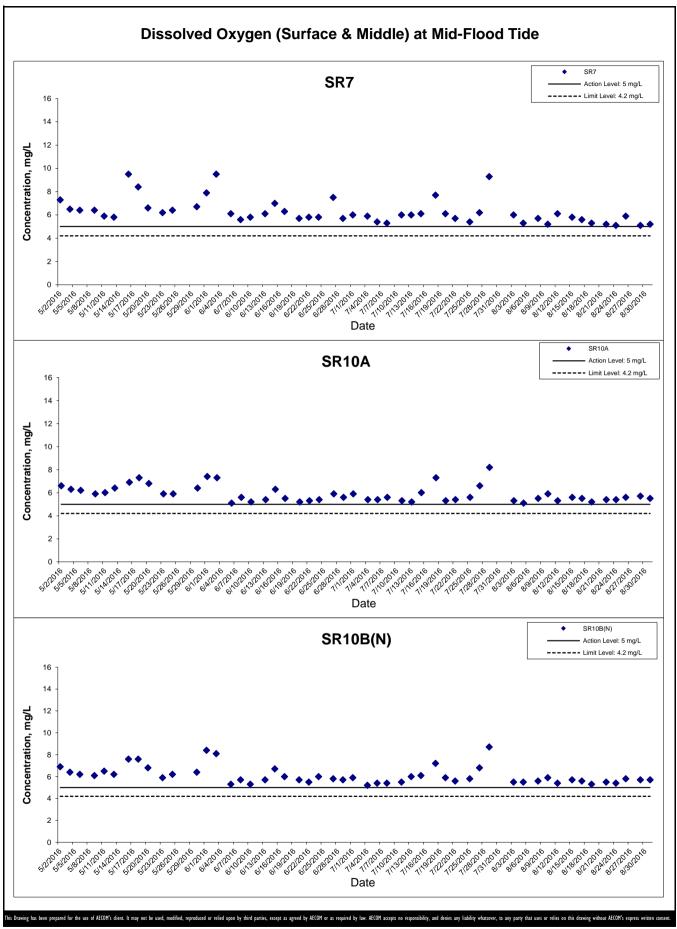
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Graphical Presentation of Impact Water Quality - RECLAMATION WORKS **Monitoring Results**

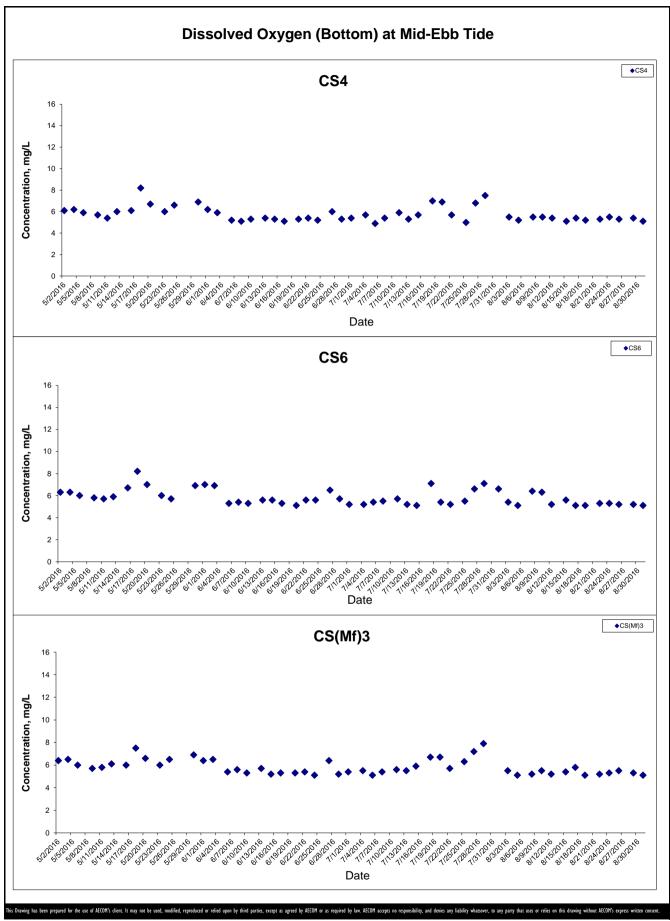


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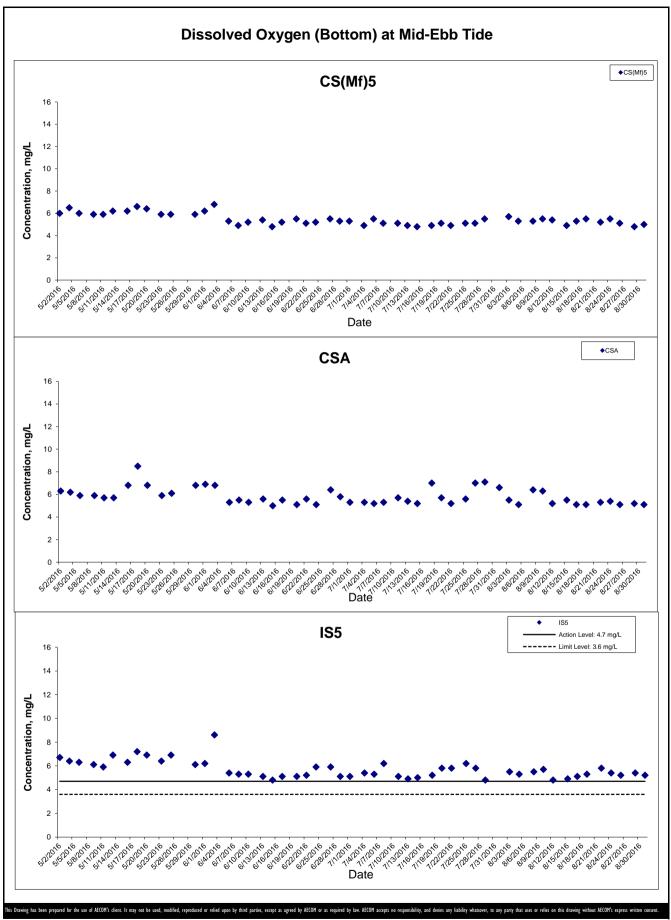


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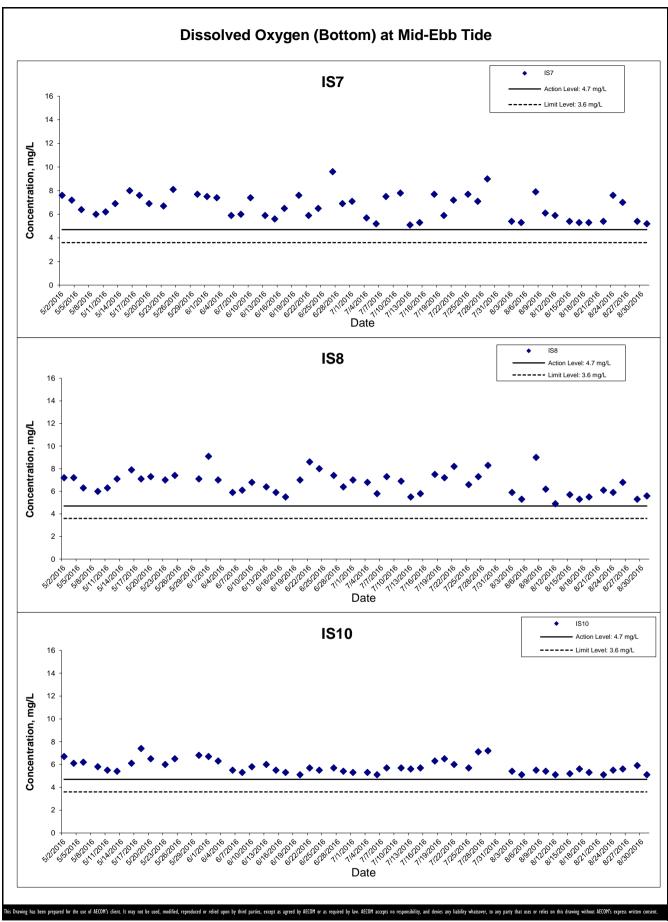
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Monitoring Results
Project No.: 60249820 Date: September 2016

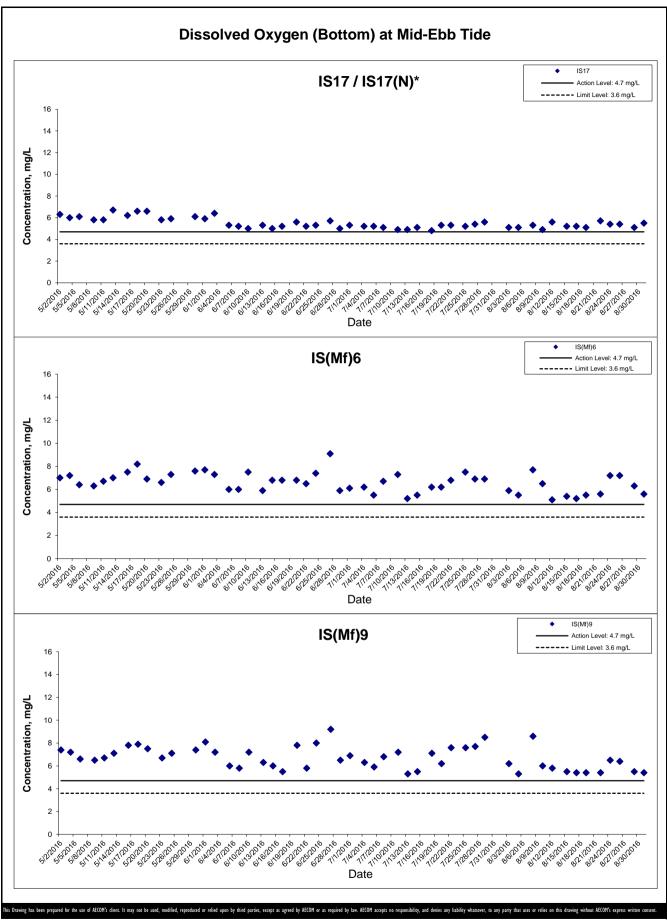


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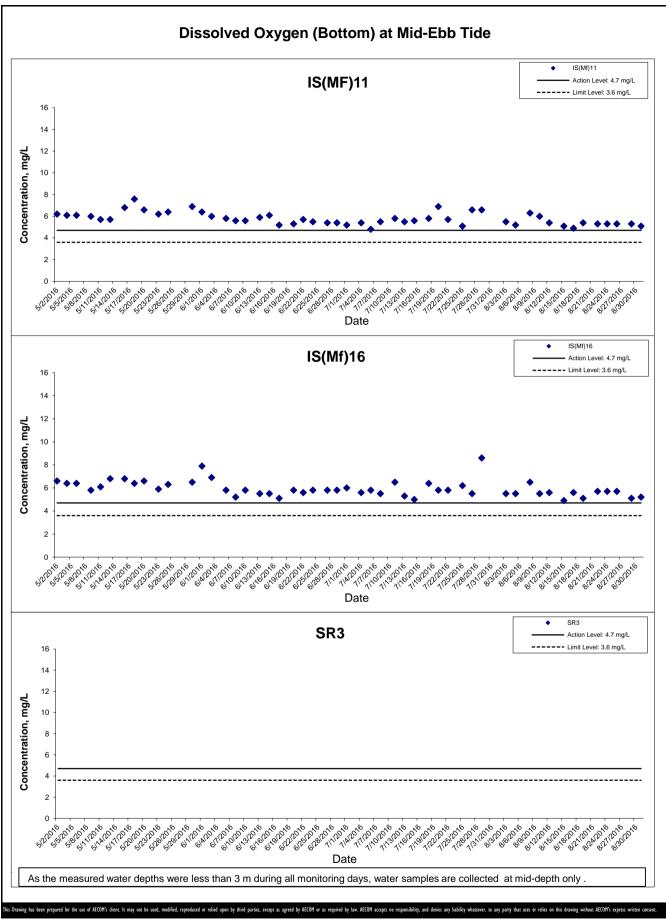


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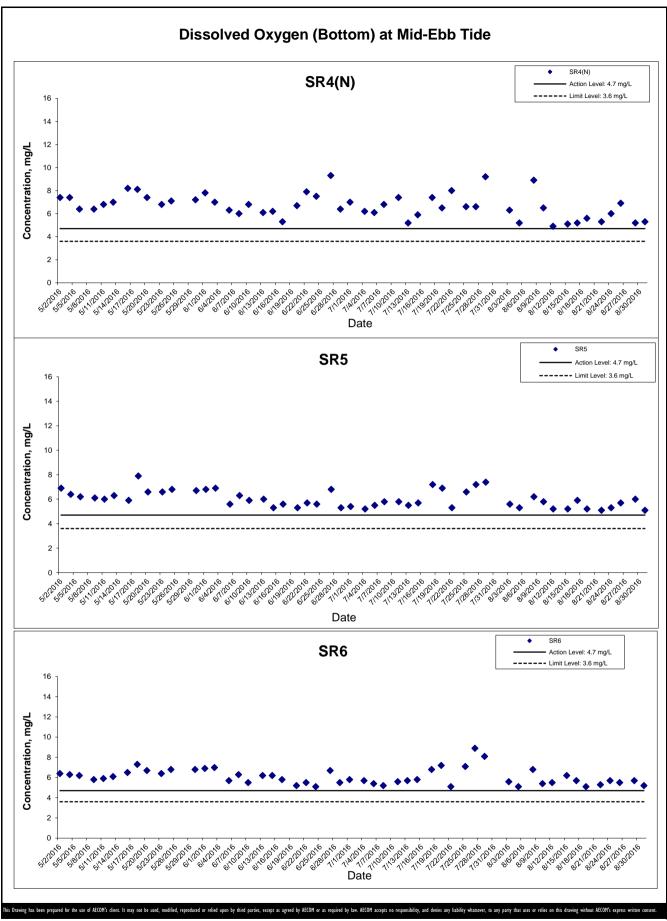
Monitoring Results
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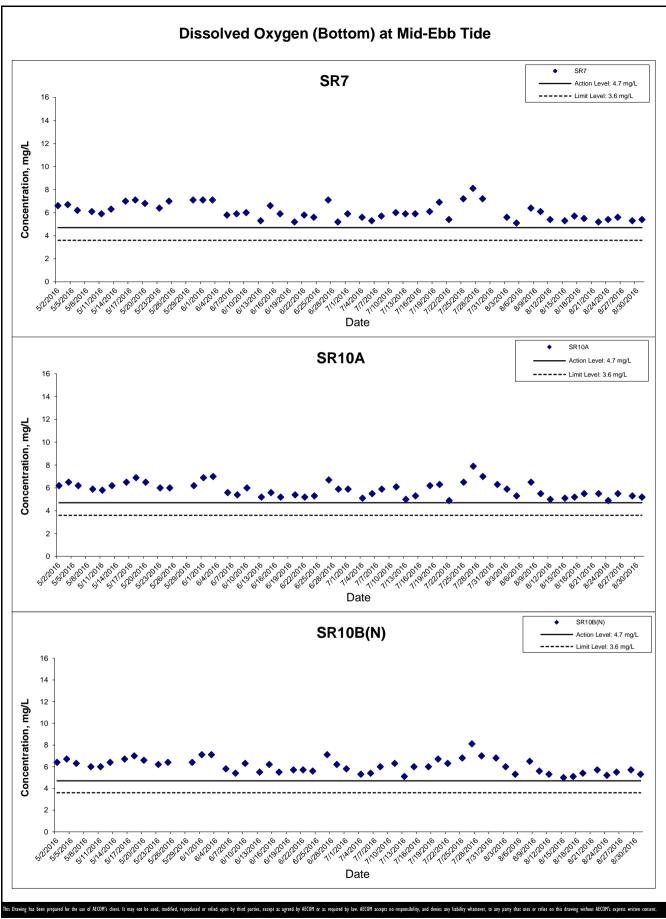
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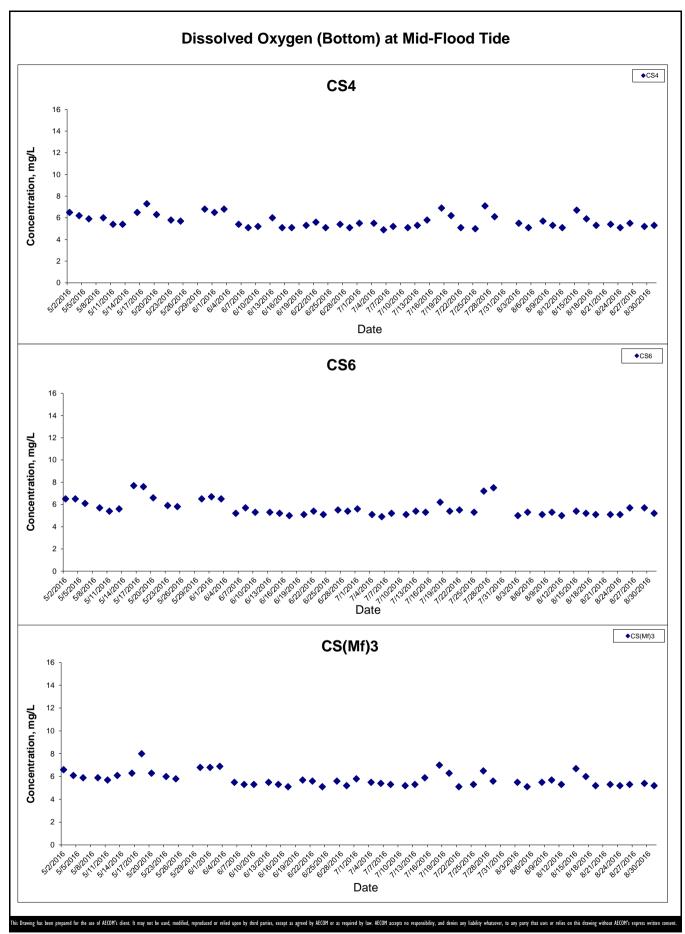
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Monitoring Results
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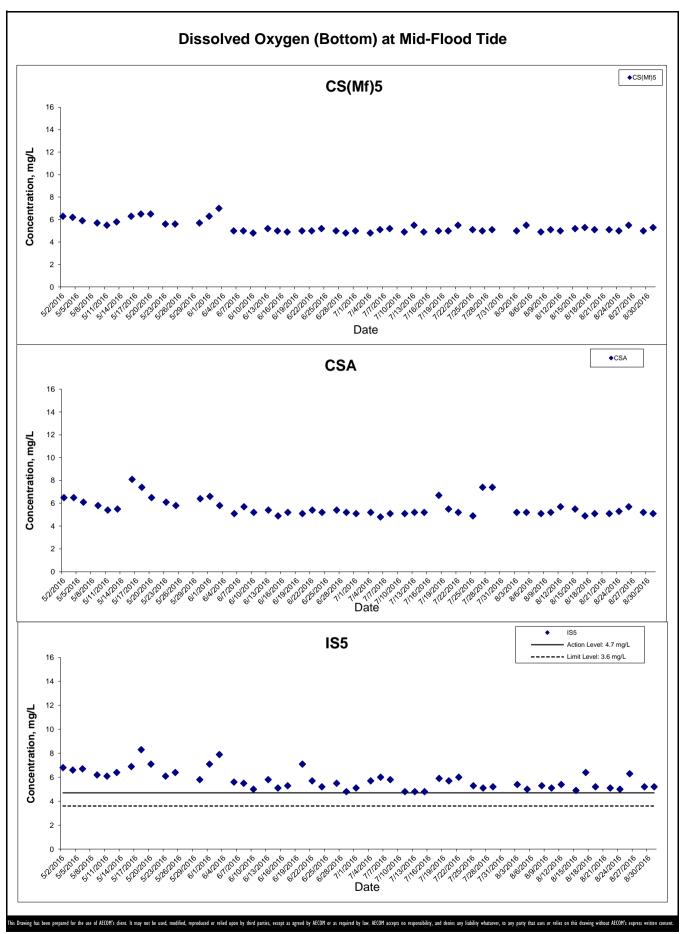


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Monitoring Results

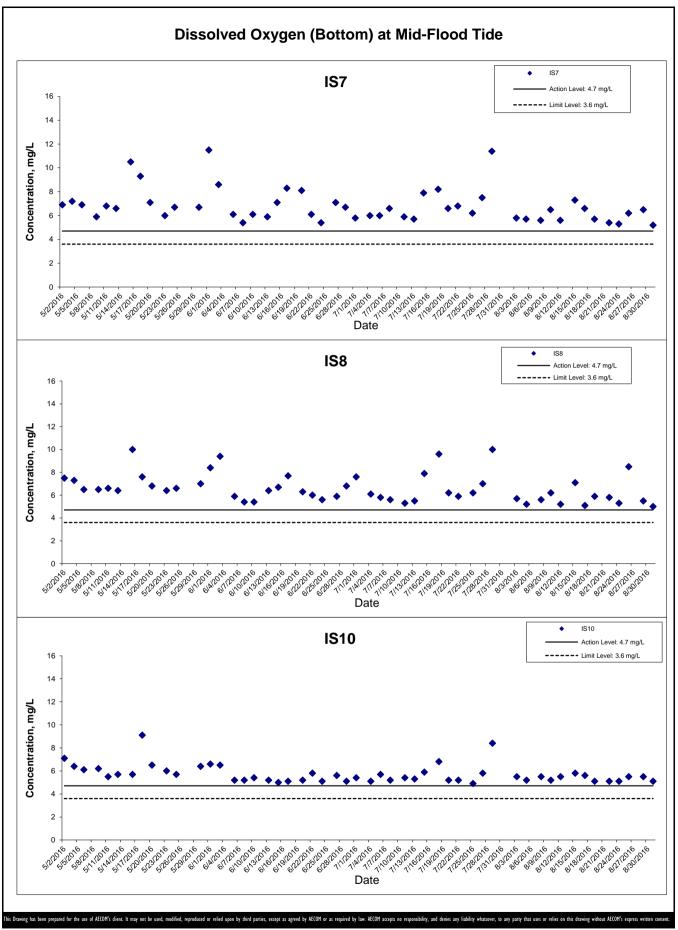


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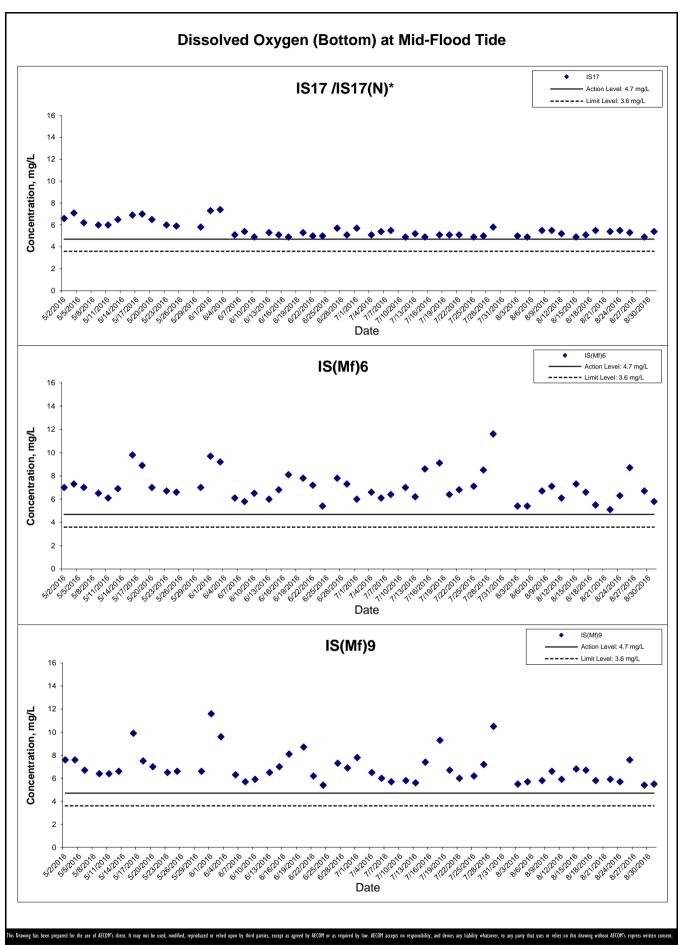




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Monitoring Results

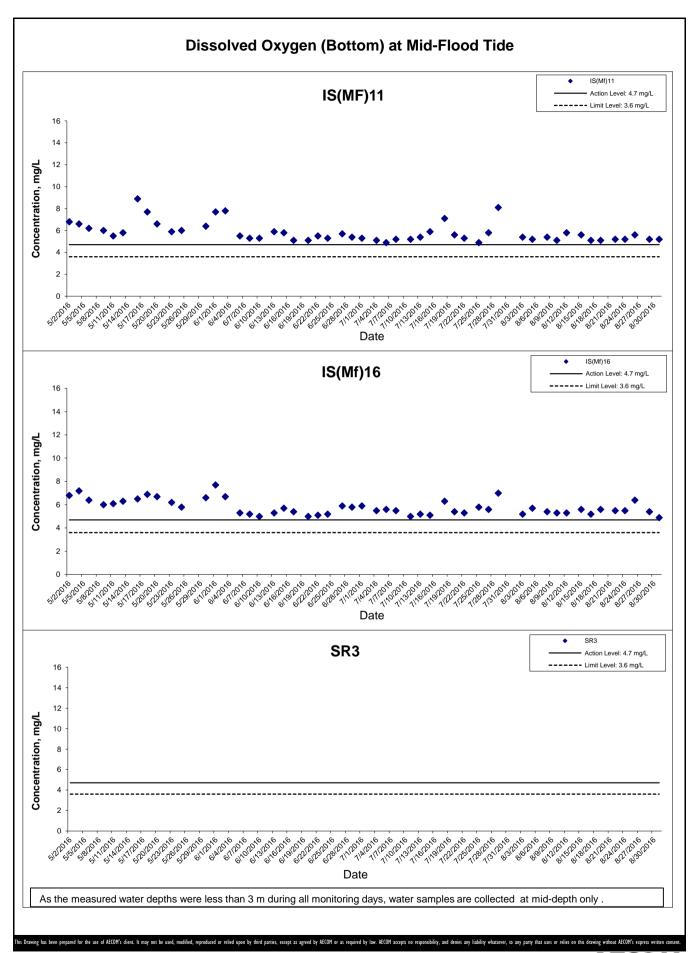


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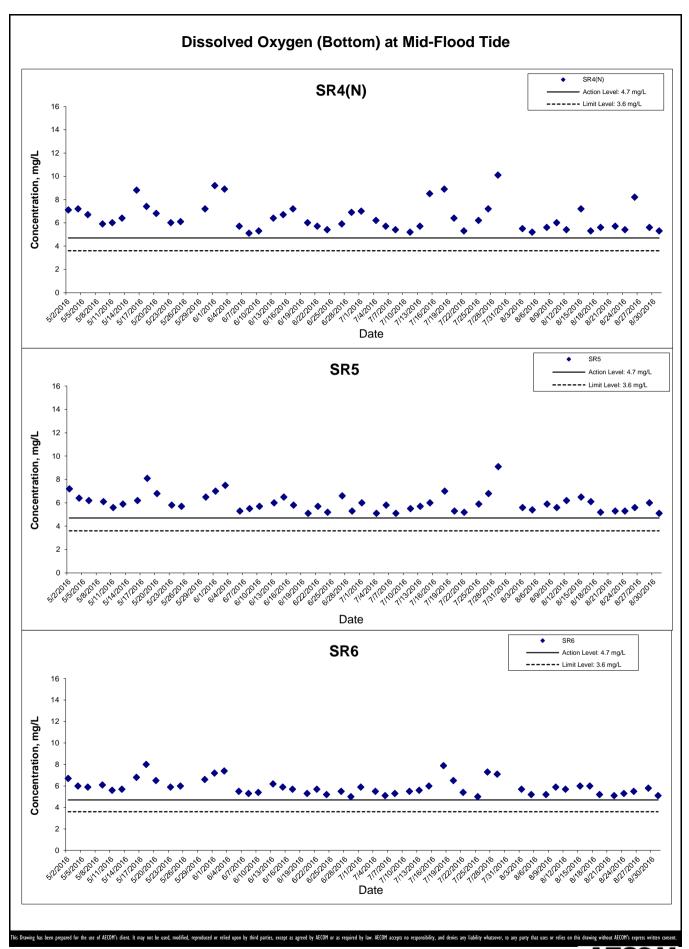
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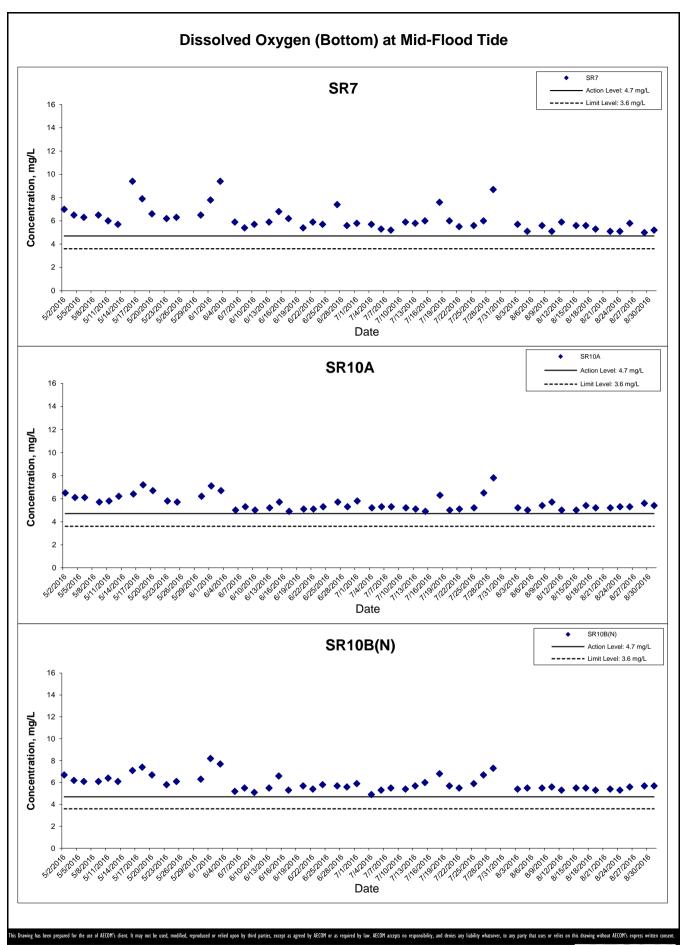


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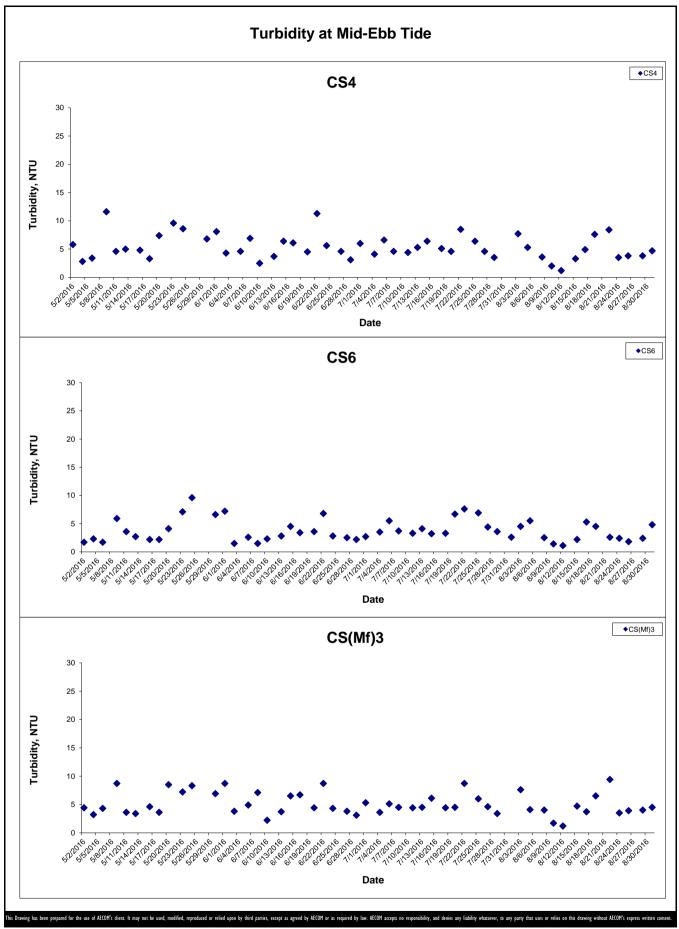


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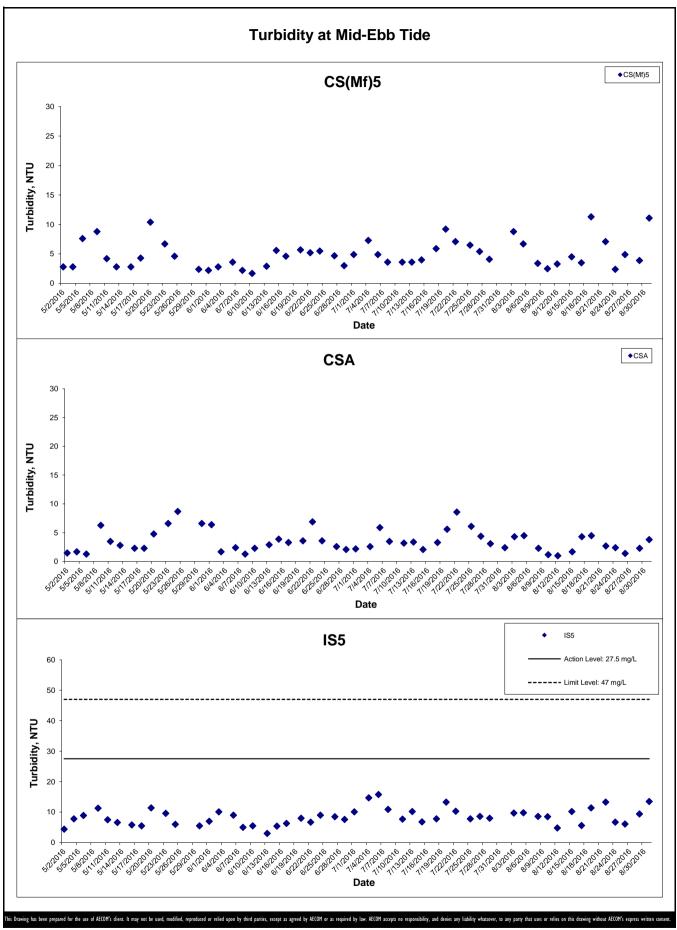
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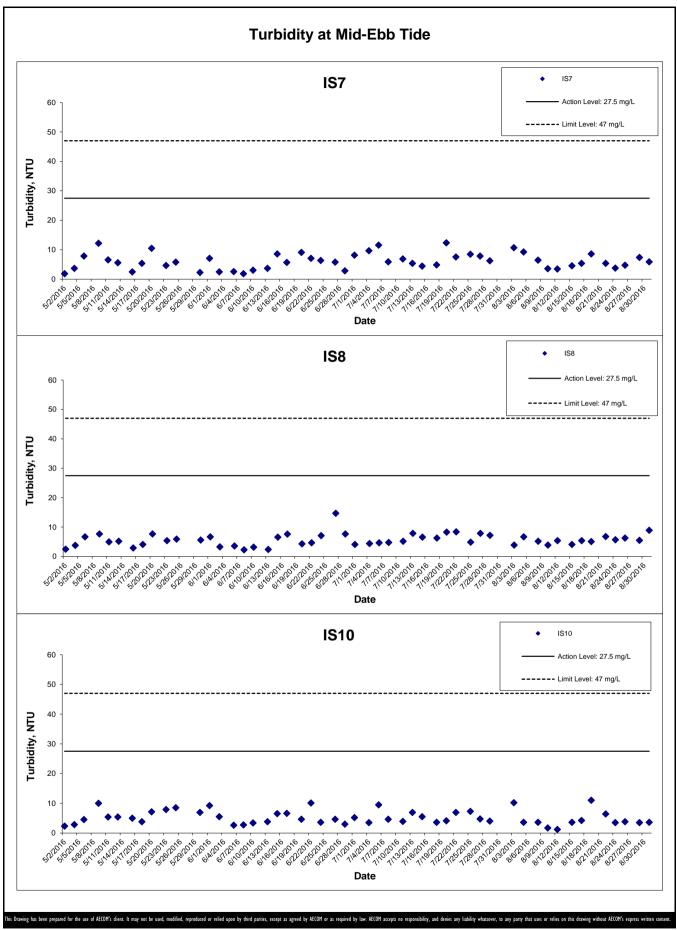
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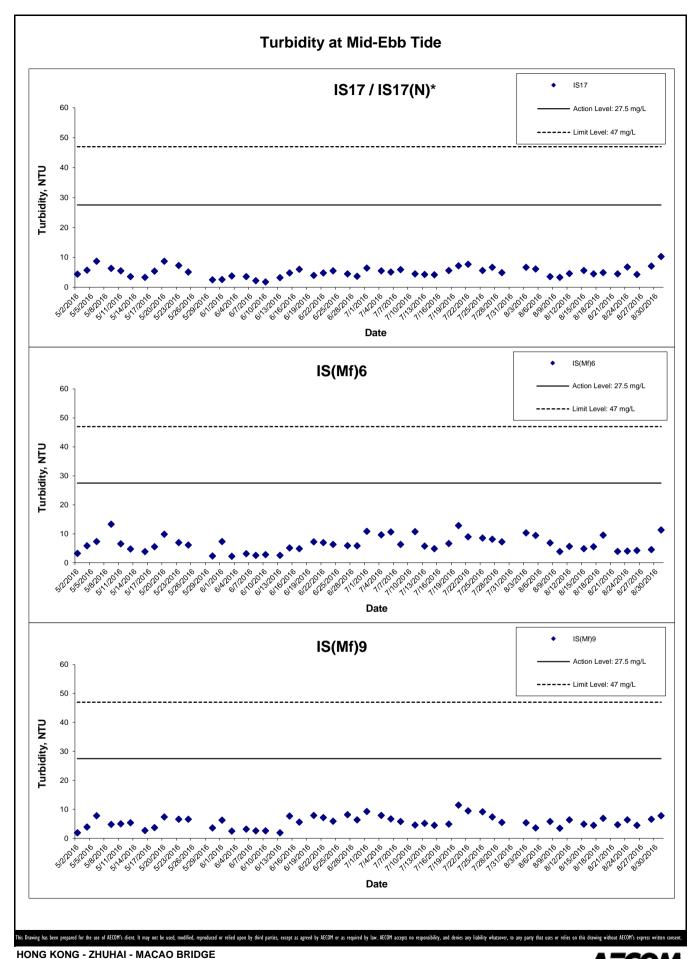
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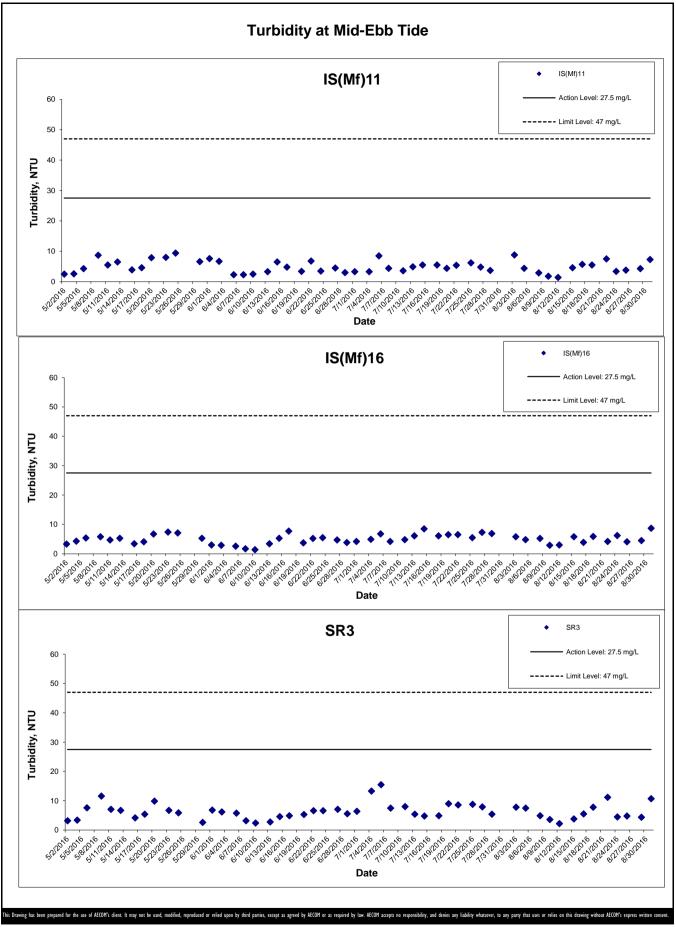
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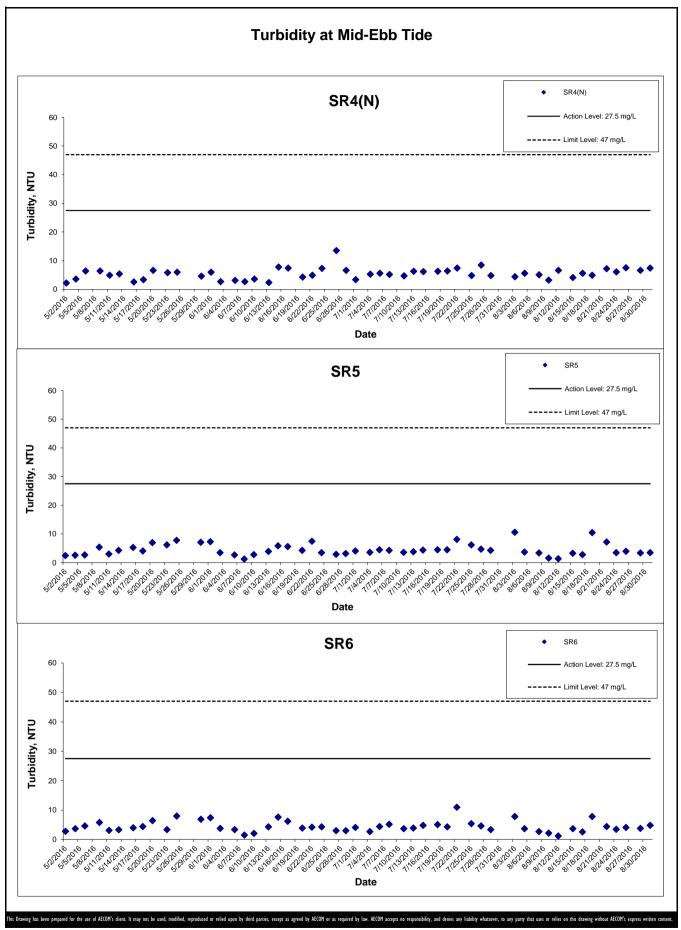
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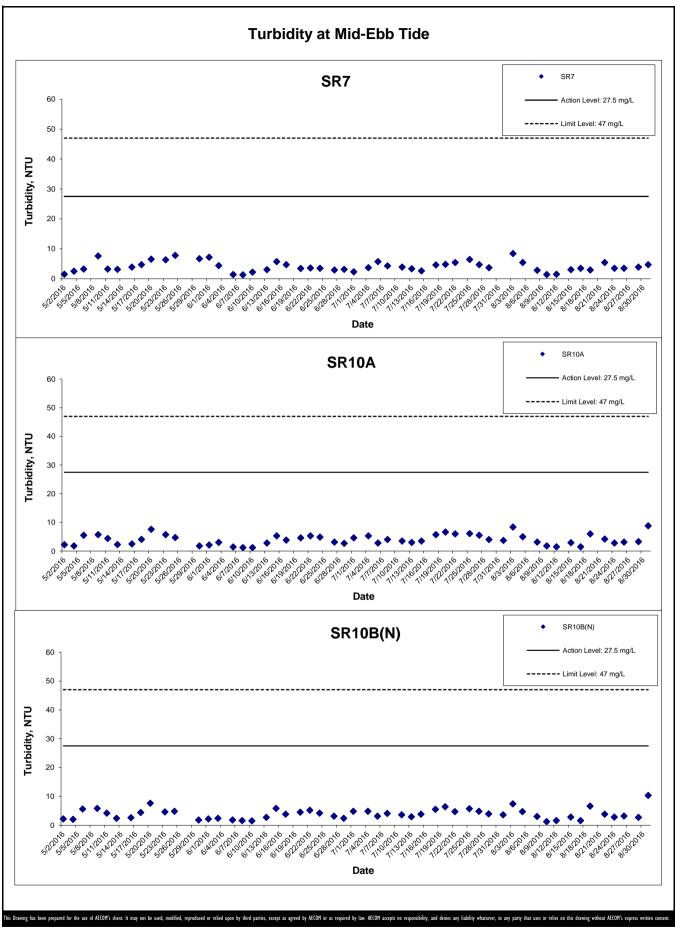
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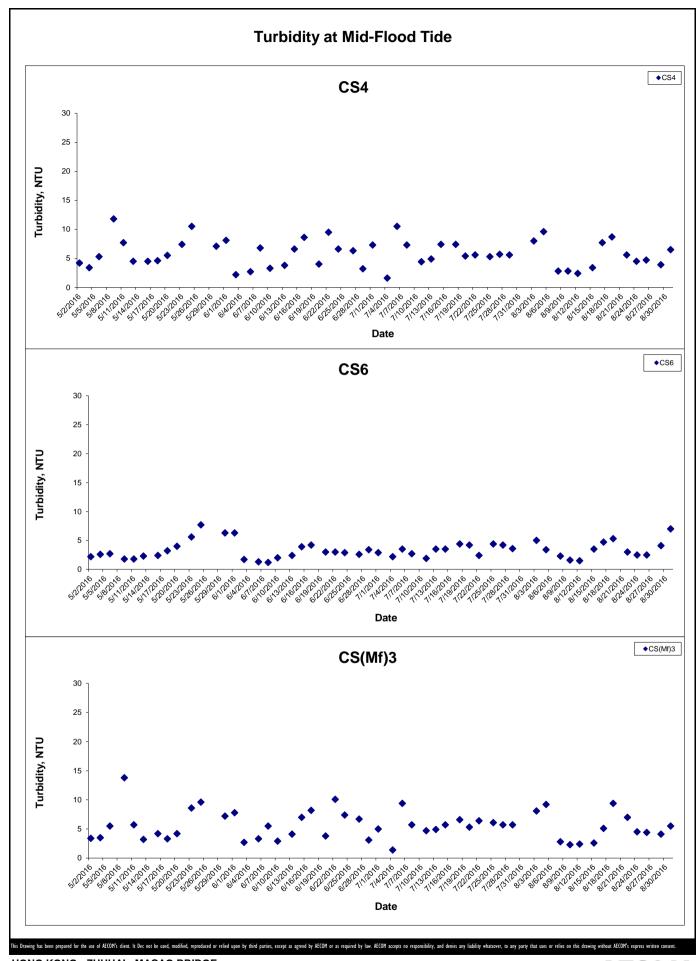
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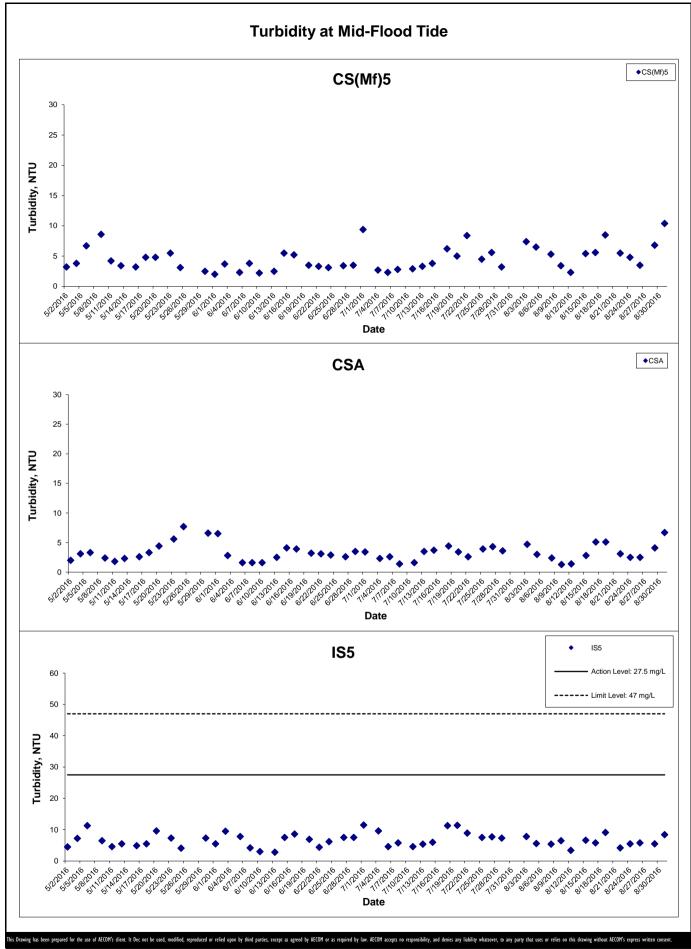


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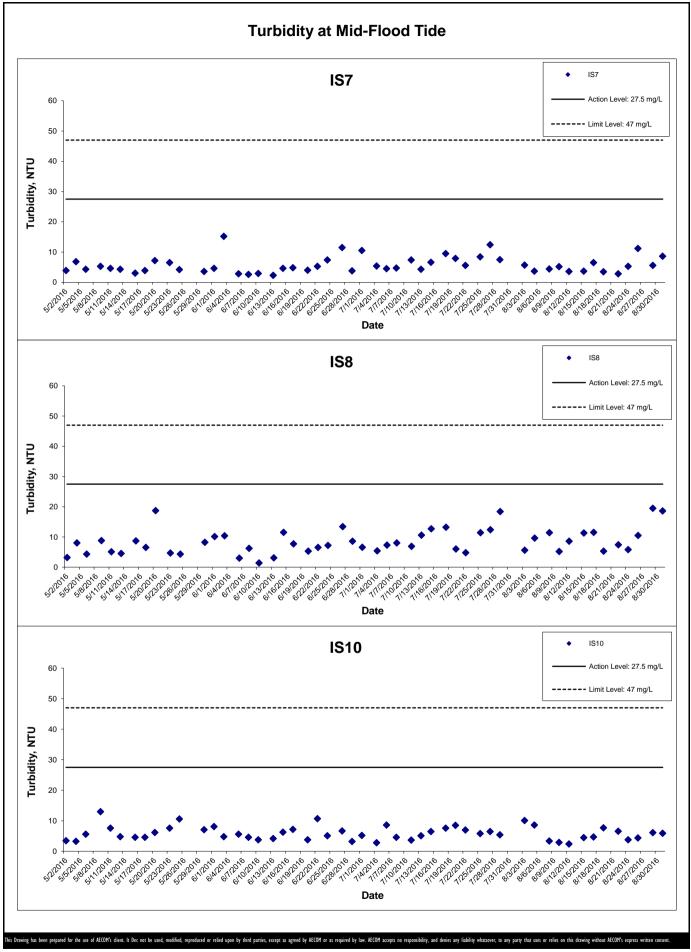
Project No.: 60249820 Date: September 2016 Appendix J

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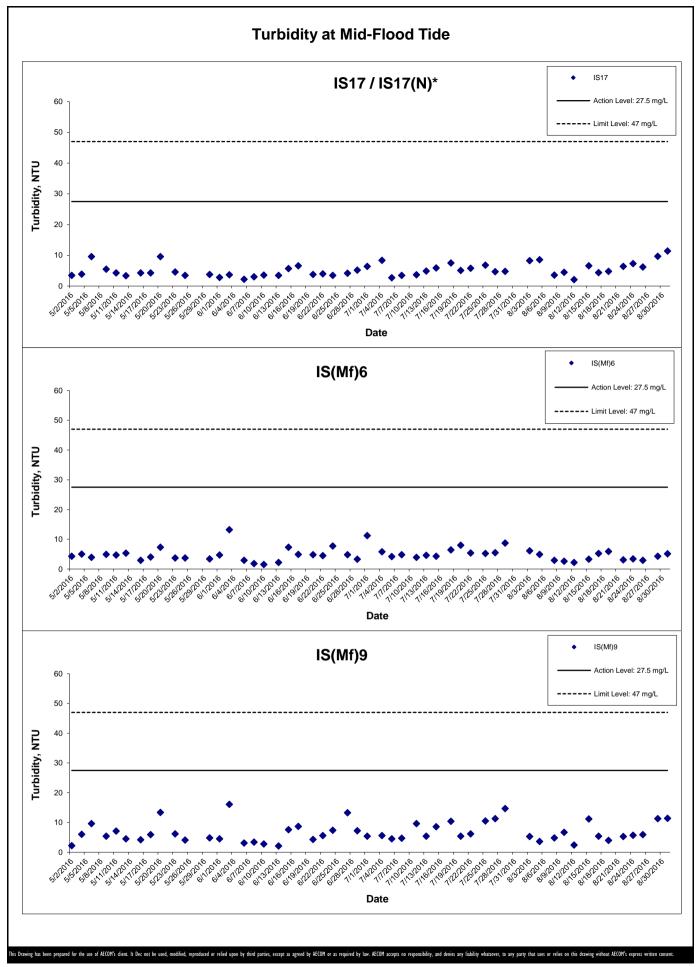
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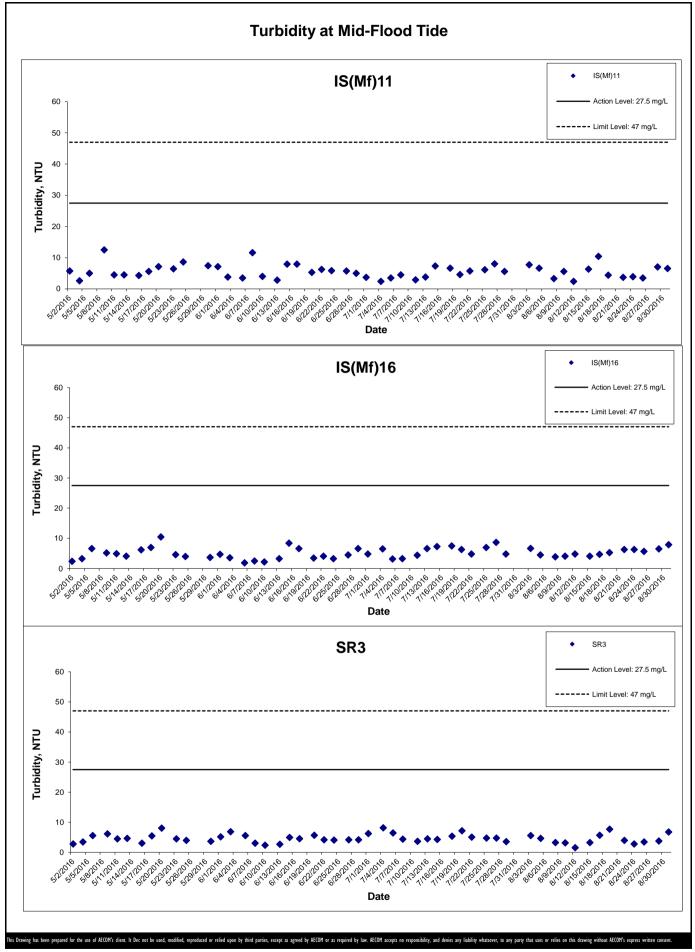
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Monitoring Results



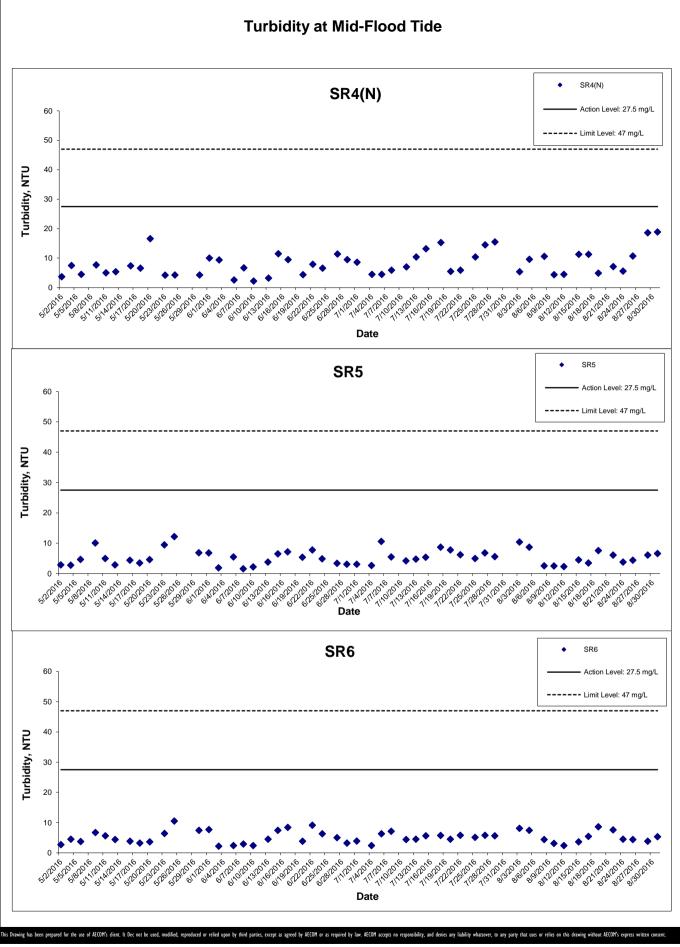
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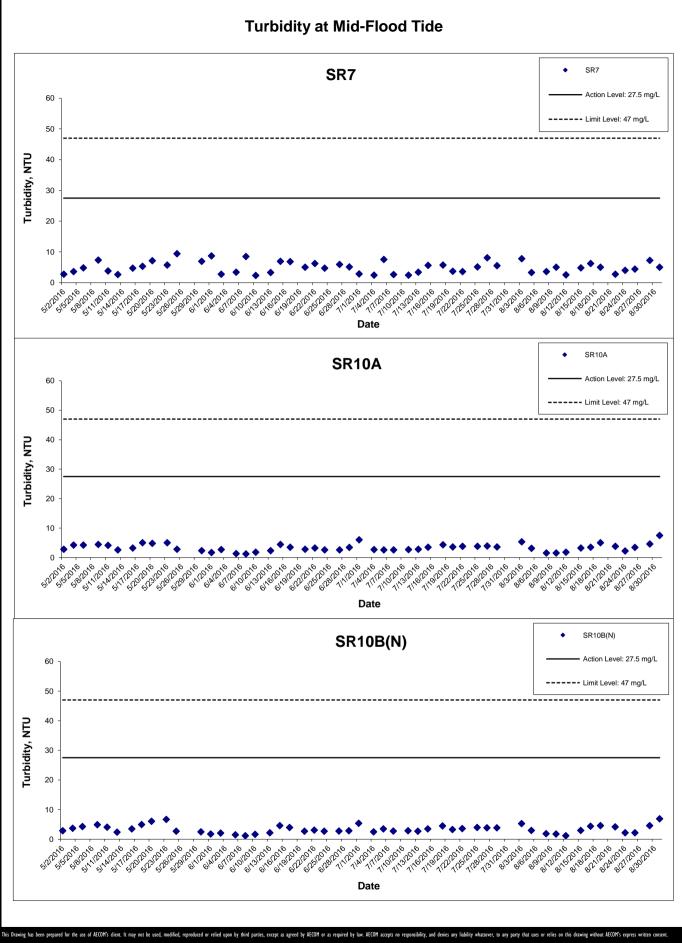
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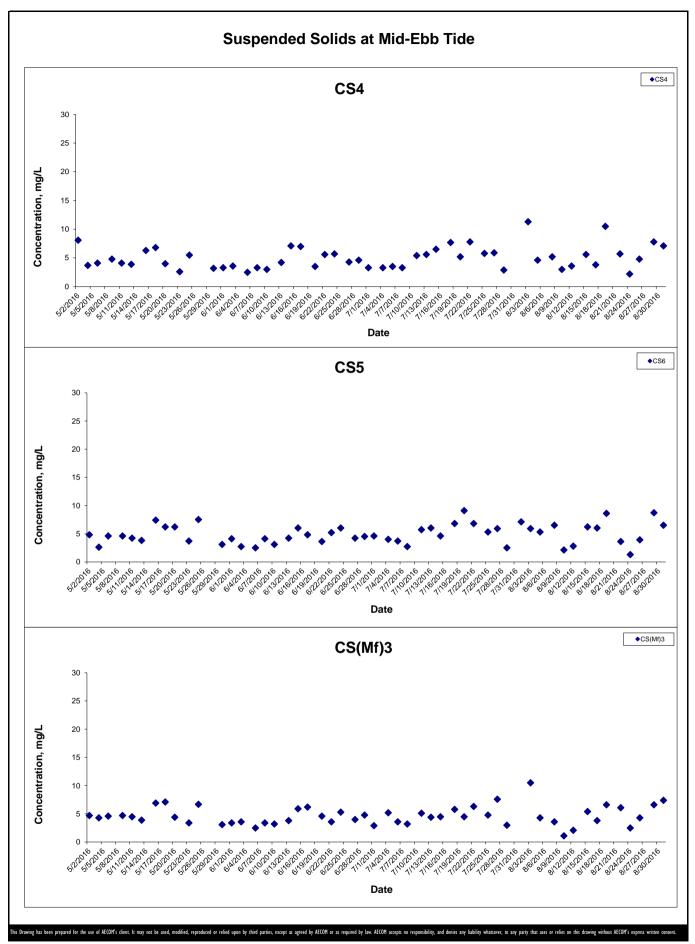
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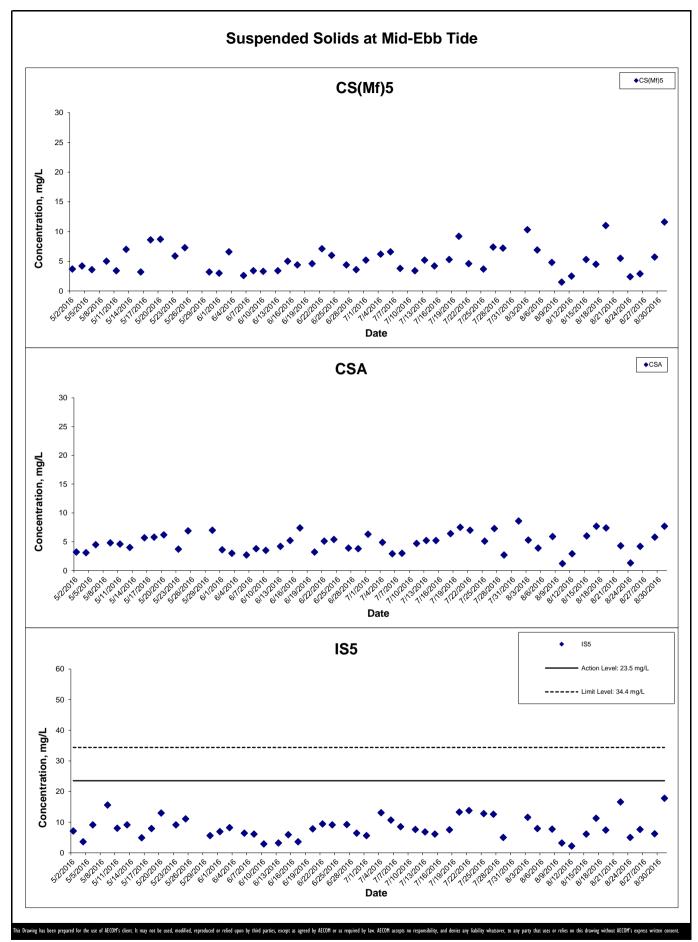
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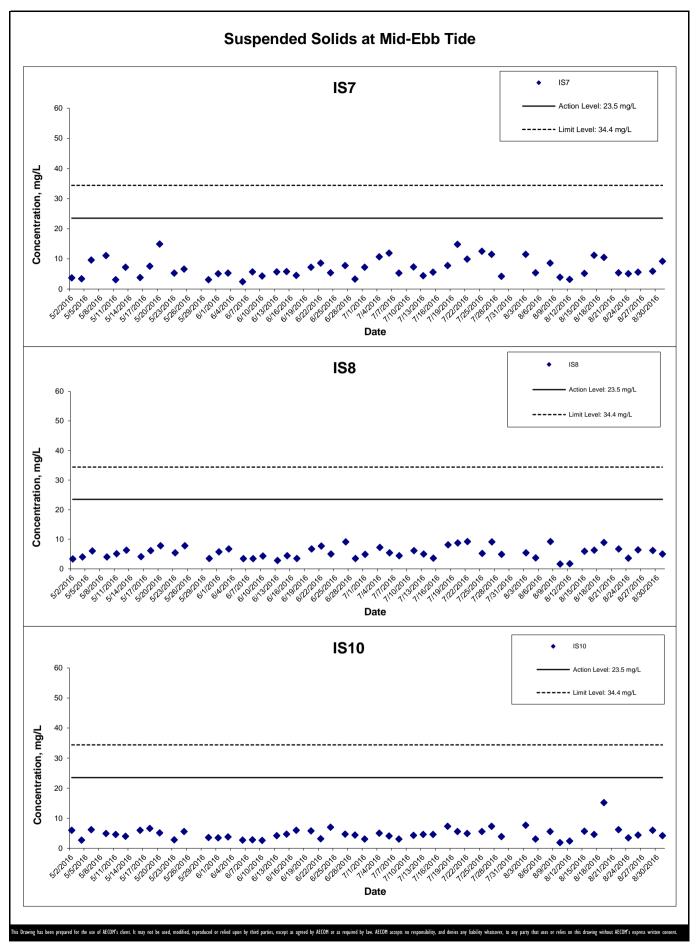


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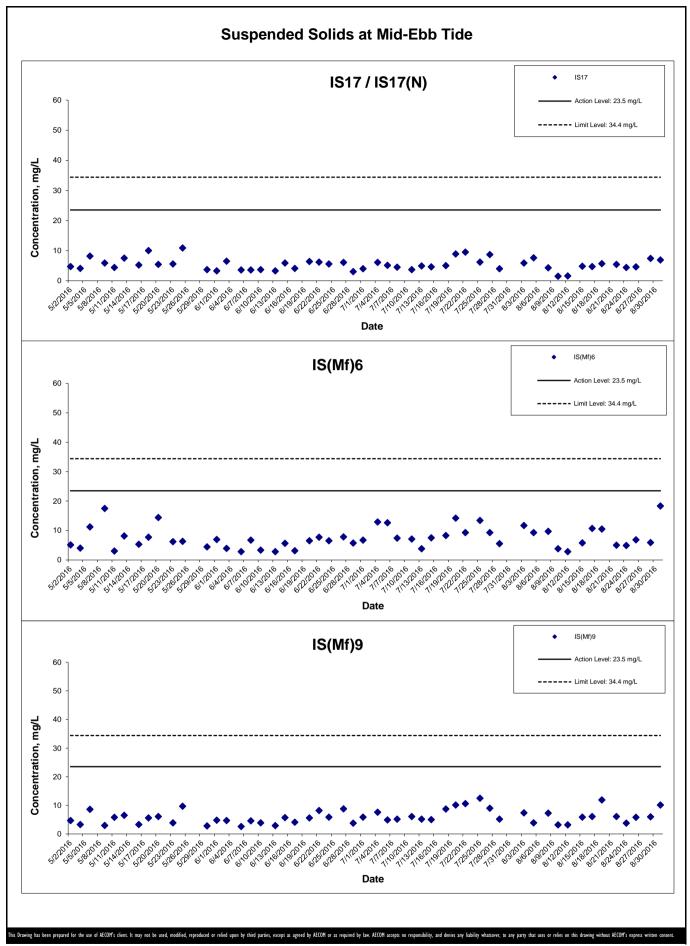




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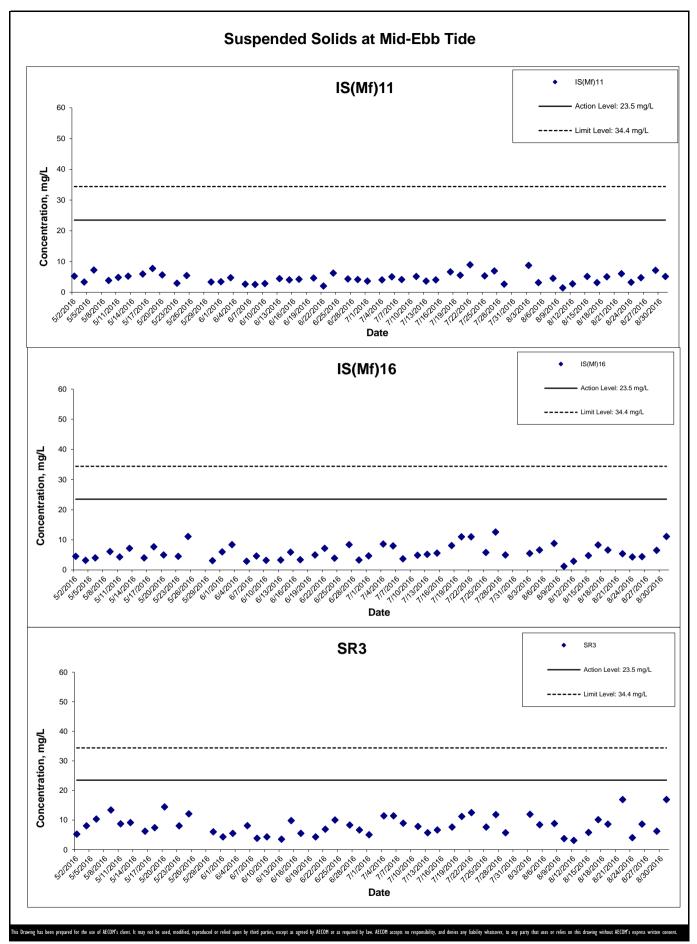
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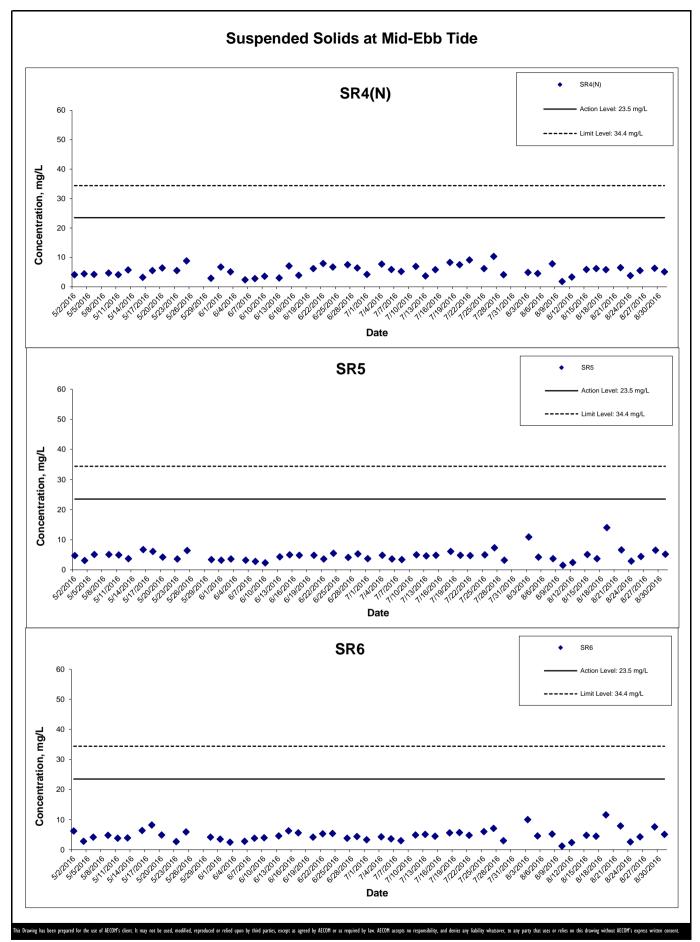


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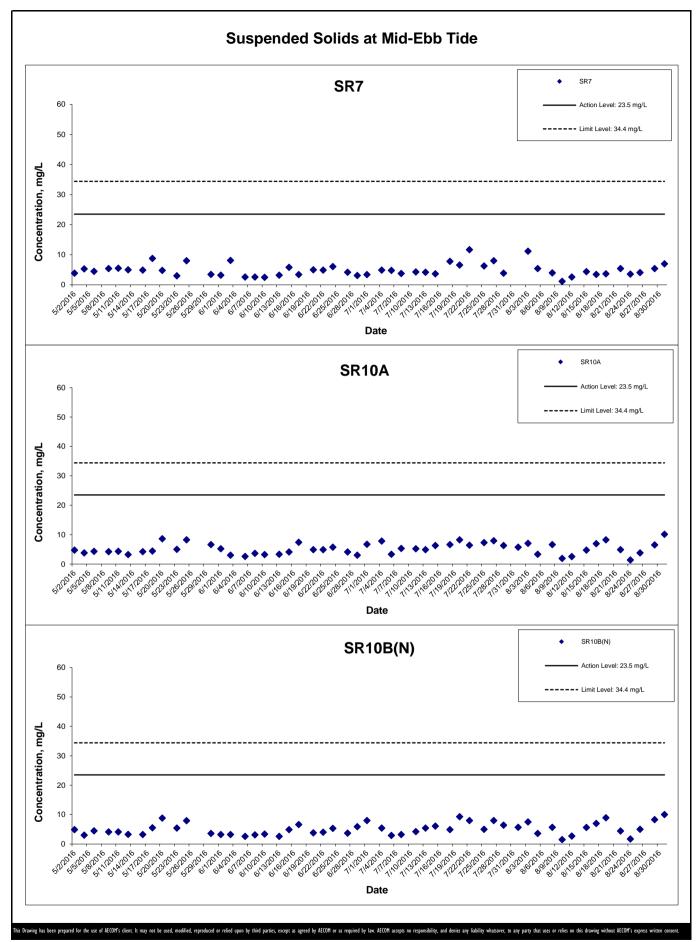
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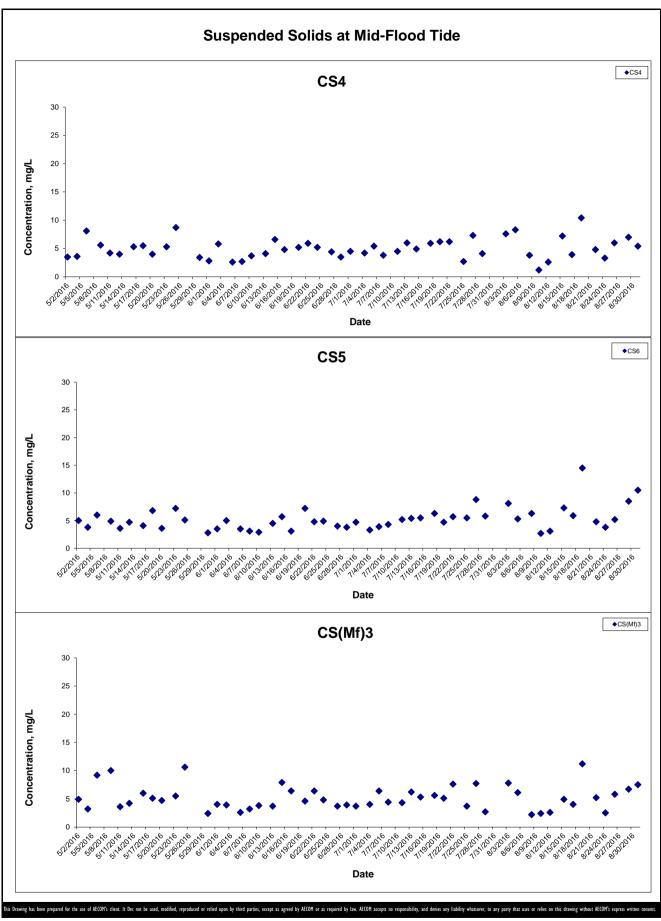
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HONG KONG BOUNDARY CROSSING FACILITIES

Date: September 2016

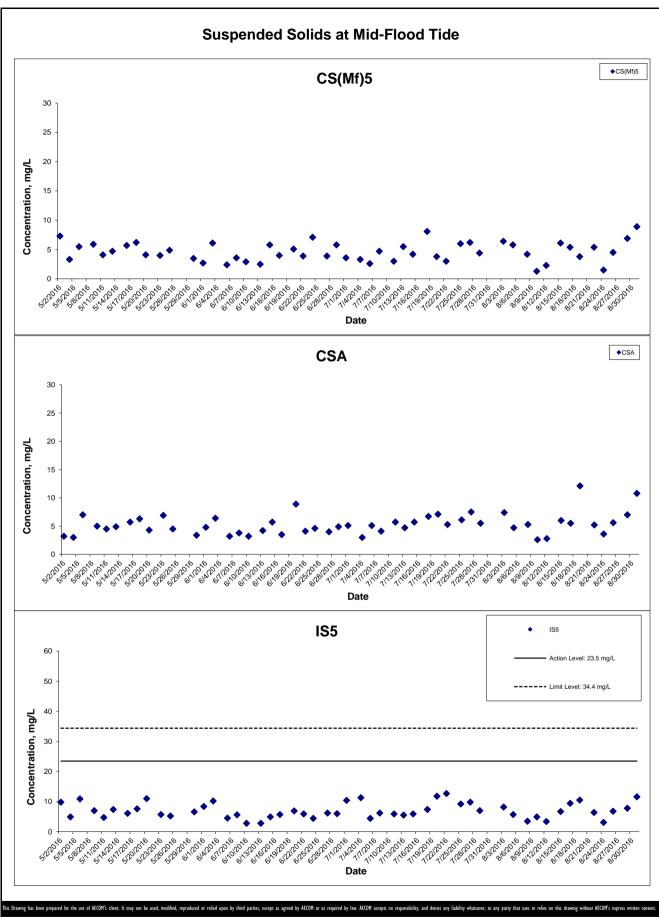
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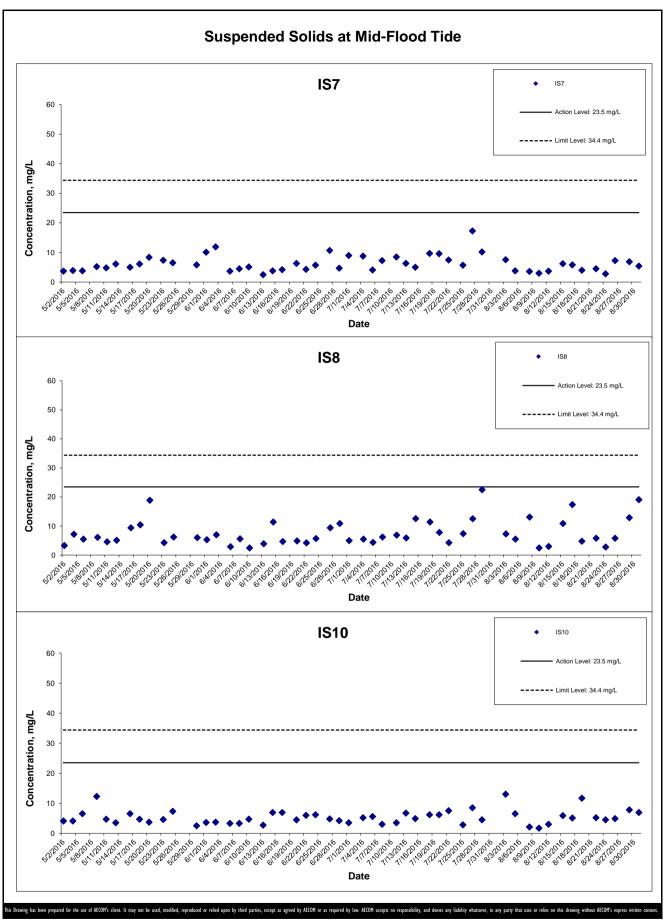


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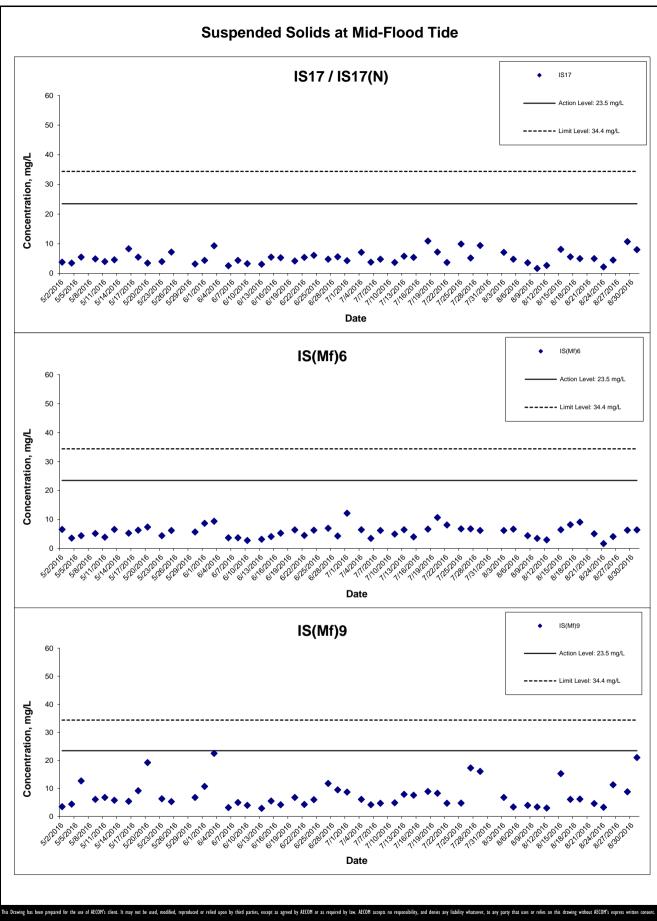
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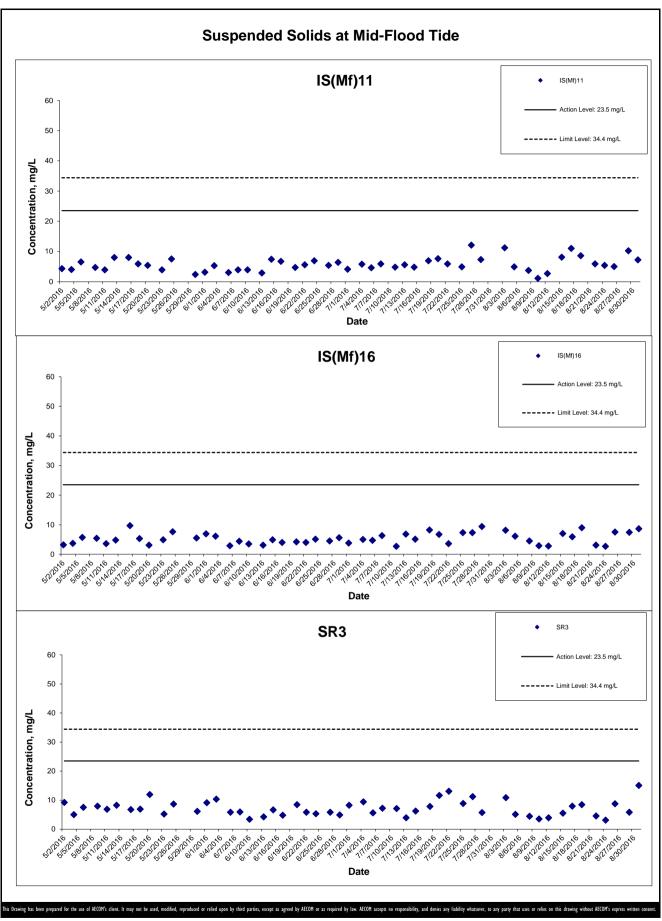
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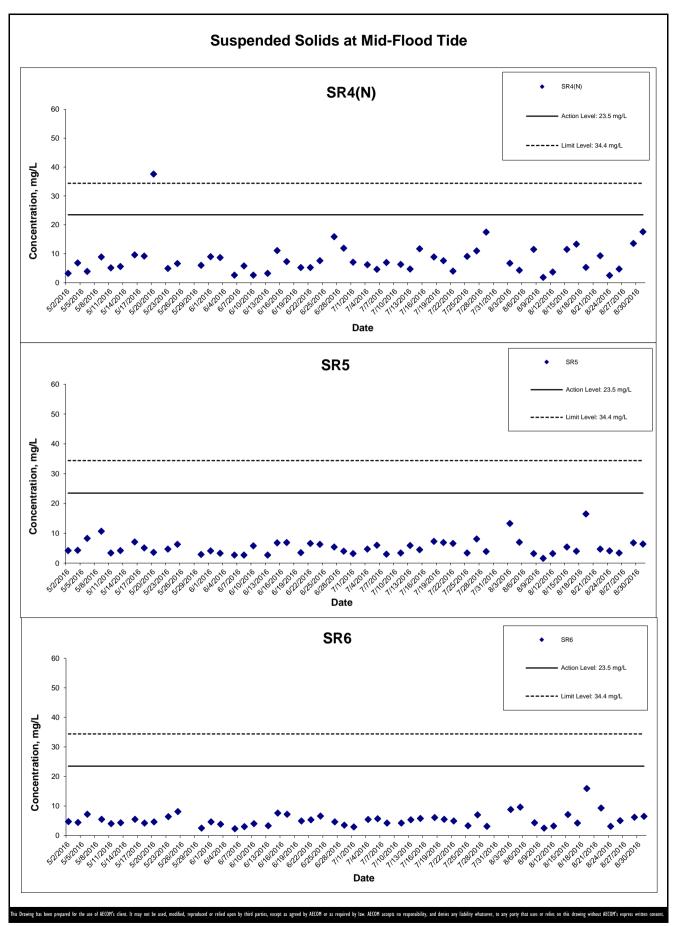
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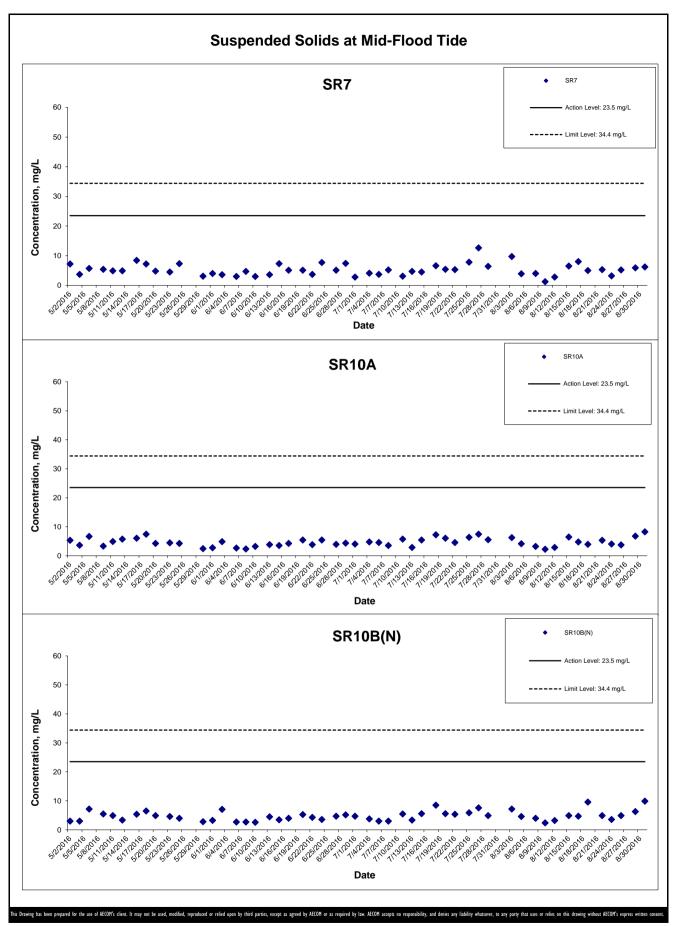
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Appendix J

North East Lantau

North West Lantau

Appendix K Impact Dolphin Monitoring Survey Sighting Summary

Table 1 Impact Dolphin Monitoring Survey Sighting Table

| | | • | | | | | | | | | | | | |
|---------|------------|-----------|-----------------|----------|---------------|------|----------|-----|--------|--------|----------|---------|--------|---------------------|
| Project | Contract | Date | Sighting No. | Time | Group Size | Area | Beaufort | PSD | Effort | Type | Northing | Easting | Season | Boat Association |
| HKBCF | HY/2010/02 | 08-Aug-16 | 1283 | 09:45:00 | 6 | WL* | 1 | N/A | Орр | Impact | 814493 | 804293 | Summer | No |
| HKBCF | HY/2010/02 | 08-Aug-16 | 1287 | 10:56:20 | 4 | NWL | 1 | 450 | On | Impact | 824686 | 804943 | Summer | No |
| HKBCF | HY/2010/02 | 08-Aug-16 | 1288 | 13:59:44 | 2 | NWL | 1 | 22 | On | Impact | 828204 | 806763 | Summer | No |
| HKBCF | HY/2010/02 | 08-Aug-16 | 1289 | 14:33:36 | 1 | NWL | 1 | 14 | On | Impact | 827685 | 806679 | Summer | No |
| HKBCF | HY/2010/02 | 09-Aug-16 | 1291 | 09:32:46 | 1 | NWL | 1 | 67 | On | Impact | 822695 | 808761 | Summer | No |
| HKBCF | HY/2010/02 | 30-Aug-16 | 1298 | 12:42:29 | 8 | NWL | 2 | 215 | On | Impact | 828182 | 806721 | Summer | No |
| HKBCF | HY/2010/02 | 30-Aug-16 | 1299 | 15:06:47 | 4 | NWL | 1 | 235 | On | Impact | 827735 | 805680 | Summer | No |

^{*} Group of dolphin was sighted at WL area while vessel based dolphin monitoring was conducted in NWL

KEY:

Sighting Opp Opportunistic

On On effort

PSD Perpendicular Sighting Distance NEL
Group Size Represents best estimate for group encountered NWL

PS = Purse Seine trawler (active)

HT = Hang Trawler (not active but sorting fish and cleaning nets)

GN = Gill Net

Annex I

July 2016 Photo Identification Information

| Identification Number | Baseline Identification Number | Date (YYYY- MM-DD) | Sighting Number | Area Sighted |
|-----------------------|--------------------------------------|-----------------------|-----------------|--------------|
| HZMB 134 | | 2016/05/23 | 1251 | NWL |
| HZMB 132 | | 2016/05/23 | 1244 | NWL |
| HZMB 131 | | 2016/03/22 | 1215 | NWL |
| HZMB 130 | | 2016/02/04 | 1199 | NWL |
| | | 2016/01/07 | 1189 | NWL |
| 117MD 400 | | 2015/10/22 | 1156 | NWL |
| HZMB 129 | | 2015/09/07 | 1143 | NWL |
| | | 2015/08/25 | 1138 | NWL |
| HZMB 128 | | 2015/01/03 | 1056 | NWL |
| HZMB 127 | | 2015/01/03 | 1056 | NWL |
| | | 2016/05/23 | 1244 | NWL |
| HZMB 126 | | 2015/02/23 | 1068 | NWL |
| | | 2015/01/03 | 1054 | NWL |
| | | 2016/05/23 | 1249 | NWL |
| HZMB 125 | | 2016/03/07 | 1208 | NWL |
| | | 2014/10/13 | 1019 | NWL |
| HZMB 124 | | 2014/09/22 | 1005 | NWL |
| HZMB 123 | | 2014/08/25 | 998 | NWL |
| 117MD 400 | | 2015/10/22 | 1156 | NWL |
| HZMB 122 | | 2014/08/04 | 989 | NWL |
| 117MD 404 | | 2016/07/18 | 1276 | NWL |
| HZMB 121 | | 2014/07/14 | 968 | NWL |
| HZMB 120 | | 2014/05/31 | 951 | NWL |
| HZMB 119 | | 2014/04/19 | 940 | NWL |
| HZMB 118 | | 2014/01/06 | 890 | NWL |
| LIZMD 447 | | 2014/06/17 | 964 | NWL |
| HZMB 117 | | 2014/01/06 | 888 | NWL |
| HZMB 116 | | 2014/08/25 | 999 | NWL |
| | | 2014/07/14 | 972 | NWL |
| LIZMD 445 | | 2014/07/14 | 971 | NWL |
| HZMB 115 | | 2013/12/26 | 879 | NWL |
| | | 2013/12/26 | 879 | NWL |
| | | 2016/06/06 | 1261 | NWL |
| HZMB 114 | | 2015/11/05 | 1162 | NWL |
| | | 2013/10/24 | 827 | NWL |
| HZMB 113 | | 2013/10/24 | 827 | NWL |
| HZMB 112 | | 2013/10/15 | 815 | NWL |

| Identification Number | Baseline Identification Number | Date (YYYY- MM-DD) | Sighting Number | Area Sighted |
|-----------------------|--------------------------------------|-----------------------|-----------------|--------------|
| HZMB 111 | | 2013/10/15 | 815 | NWL |
| 117MD 440 | | 2016/01/18 | 1193 | NWL |
| HZMB 110 | | 2013/10/15 | 812 | NWL |
| 117MD 400 | | 2015/06/11 | 1118 | NWL |
| HZMB 108 | | 2013/08/30 | 780 | NEL |
| | | 2015/07/28 | 1126 | NWL |
| UZMD 107 | | 2014/10/13 | 1019 | NWL |
| HZMB 107 | | 2014/05/31 | 951 | NWL |
| | | 2013/08/21 | 770 | NWL |
| HZMB 106 | | 2013/08/21 | 769 | NWL |
| 117MD 405 | | 2014/05/31 | 951 | NWL |
| HZMB 105 | | 2013/07/08 | 711 | NWL |
| HZMB 104 | | 2013/07/08 | 711 | NWL |
| HZMB 103 | | 2013/07/08 | 711 | NWL |
| HZMB 102 | | 2013/07/08 | 706 | NWL |
| HZMB 101 | | 2013/07/08 | 706 | NWL |
| HZMB 100 | | 2013/07/08 | 706 | NWL |
| 117MD 000 | | 2013/06/13 | 681 | NWL |
| HZMB 099 | | 2013/06/13 | 680 | NWL |
| | | 2015/02/23 | 1077 | NWL |
| | | 2014/12/18 | 1044 | NWL |
| | | 2014/08/04 | 992 | NWL |
| | | 2014/01/06 | 888 | NWL |
| | | 2013/11/02 | 849 | NWL |
| | | 2013/11/02 | 845 | NWL |
| | | 2013/10/24 | 831 | NWL |
| LIZMD 000 | NII 404 | 2013/07/08 | 711 | NWL |
| HZMB 098 | NL104 | 2013/05/24 | 659 | NWL |
| | | 2011/11/07 | Baseline | NWL |
| | | 2011/11/05 | Baseline | NWL |
| | | 2011/11/05 | Baseline | NWL |
| | | 2011/11/02 | Baseline | NWL |
| | | 2011/10/28 | Baseline | NWL |
| | | 2011/09/23 | Baseline | NWL |
| | | 2011/09/16 | Baseline | NWL |
| HZMB 097 | | 2013/05/09 | 647 | NWL |
| HZMB 096 | | 2013/04/01 | 621 | NWL |
| HZMB 095 | | 2013/08/30 | 780 | NEL |

| Identification Number | Baseline Identification Number | Date (YYYY- MM-DD) | Sighting Number | Area Sighted |
|-----------------------|--------------------------------------|-----------------------|-----------------|--------------|
| | | 2013/06/25 | 697 | NWL |
| | | 2013/06/13 | 682 | NWL |
| | | 2013/04/01 | 621 | NWL |
| | | 2014/10/13 | 1019 | NWL |
| | | 2014/05/31 | 954 | NWL |
| LIZMD 004 | | 2014/02/17 | 910 | NWL |
| HZMB 094 | | 2013/06/26 | 703 | NWL |
| | | 2013/06/25 | 698 | NWL |
| | | 2013/03/18 | 601 | NWL |
| 117MD 000 | | 2013/05/24 | 657 | NWL |
| HZMB 093 | | 2013/02/21 | 587 | NWL |
| | | 2015/04/20 | 1097 | NWL |
| HZMB 092 | | 2013/02/21 | 589 | NWL |
| | | 2013/02/15 | 581 | NWL |
| HZMB 091 | | 2013/02/15 | 579 | NWL |
| | | 2013/06/25 | 697 | NWL |
| HZMB 090 | | 2013/06/13 | 682 | NWL |
| | | 2013/02/15 | 579 | NWL |
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| HZMB 088 | | 2013/02/15 | 579 | NWL |
| HZMB 087 | | 2013/02/15 | 579 | NWL |
| | | 2015/03/19 | 1086 | NWL |
| 117NAD 000 | NII 0 40 | 2013/05/09 | 642 | NWL |
| HZMB 086 | NL242 | 2013/02/15 | 579 | NWL |
| | | 2011/10/10 | Baseline | NWL |
| 117NAD 005 | | 2014/10/13 | 1019 | NWL |
| HZMB 085 | | 2014/05/31 | 954 | NWL |
| | | 2013/06/26 | 703 | NWL |
| HZMB 084 | | 2013/02/15 | 579 | NWL |
| | | 2013/02/14 | 575 | NWL |
| | | 2015/12/01 | 1180 | NWL |
| | | 2015/05/11 | 1104 | NWL |
| | | 2013/12/19 | 863 | NWL |
| 117MD 000 | NII 400 | 2013/03/28 | 607 | NWL |
| HZMB 083 | NL136 | 2013/02/15 | 579 | NWL |
| | | 2013/01/28 | 568 | NWL |
| | | 2013/01/28 | 564 | NWL |
| | | 2012/04/19 | 267 | NWL |

| Identification Number | Baseline Identification Number | Date (YYYY- MM-DD) | Sighting Number | Area Sighted |
|-----------------------|--------------------------------------|-----------------------|-----------------|--------------|
| | | 2011/10/28 | Baseline | NWL |
| | | 2011/10/28 | Baseline | NWL |
| | | 2011/10/10 | Baseline | NEL |
| | | 2011/09/06 | Baseline | NWL |
| | | 2014/10/20 | 1024 | NWL |
| LIZMD 000 | | 2013/02/21 | 587 | NWL |
| HZMB 082 | | 2013/02/15 | 579 | NWL |
| | | 2013/01/28 | 563 | NWL |
| LIZMD 004 | | 2013/01/28 | 559 | NWL |
| HZMB 081 | | 2013/01/28 | 557 | NWL |
| HZMB 080 | | 2013/01/28 | 556 | NWL |
| HZMB 079 | | 2013/01/28 | 556 | NWL |
| LIZMD 070 | | 2013/02/15 | 579 | NWL |
| HZMB 078 | | 2013/01/08 | 552 | NWL |
| | | 2013/12/26 | 878 | NWL |
| HZMB 077 | | 2013/07/08 | 706 | NWL |
| | | 2012/12/11 | 541 | NWL |
| 11714D 070 | | 2013/07/08 | 706 | NWL |
| HZMB 076 | | 2012/12/11 | 541 | NWL |
| HZMB 075 | | 2012/12/06 | 525 | NEL |
| | | 2013/05/09 | 647 | NWL |
| | | 2013/04/01 | 623 | NWL |
| 1.171.4D 07.4 | | 2013/04/01 | 621 | NWL |
| HZMB 074 | | 2013/02/21 | 594 | NEL |
| | | 2012/12/10 | 529 | NEL |
| | | 2012/12/06 | 525 | NEL |
| | | 2013/05/09 | 647 | NWL |
| | | 2013/04/01 | 623 | NWL |
| 1.171.4D 0.70 | | 2013/04/01 | 621 | NWL |
| HZMB 073 | | 2013/02/21 | 594 | NEL |
| | | 2012/12/10 | 529 | NEL |
| | | 2012/12/06 | 525 | NEL |
| HZMB 072 | | 2012/10/24 | 476 | NWL |
| | | 2012/10/24 | 475 | NWL |
| HZMB 071 | | 2012/10/12 | 466 | NWL |
| HZMB 070 | | 2012/10/24 | 476 | NWL |
| | | 2015/06/04 | 1116 | NWL |
| HZMB 069 | | 2013/08/21 | 774 | NWL |

| Identification Number | Baseline Identification Number | Date (YYYY- MM-DD) | Sighting Number | Area Sighted |
|-----------------------|--------------------------------------|-----------------------|-----------------|--------------|
| | | 2013/07/08 | 711 | NWL |
| | | 2012/10/24 | 476 | NWL |
| | | 2014/10/20 | 1025 | NWL |
| HZMB 068 | | 2013/11/01 | 839 | NWL |
| | | 2012/10/24 | 476 | NWL |
| HZMB 067 | | 2012/10/24 | 475 | NWL |
| | | 2013/01/28 | 559 | NWL |
| | | 2012/12/11 | 537 | NWL |
| LIZMD 000 | NI OO | 2012/10/24 | 475 | NWL |
| HZMB 066 | NL93 | 2012/10/12 | 466 | NWL |
| | | 2011/11/07 | Baseline | NWL |
| | | 2011/11/05 | Baseline | NWL |
| | | 2015/03/19 | 1086 | NWL |
| | | 2014/06/17 | 964 | NWL |
| 117MD 004 | | 2013/05/09 | 647 | NWL |
| HZMB 064 | | 2013/01/28 | 561 | NWL |
| | | 2012/10/24 | 475 | NWL |
| | | 2012/10/12 | 466 | NWL |
| 117MD 000 | | 2013/05/09 | 647 | NWL |
| HZMB 063 | | 2012/10/12 | 466 | NWL |
| 117MD 000 | | 2012/12/06 | 525 | NEL |
| HZMB 062 | | 2012/10/11 | 457 | NWL |
| HZMB 060 | | 2012/09/18 | 447 | NWL |
| LIZMD OFO | | 2013/02/21 | 591 | NWL |
| HZMB 059 | | 2012/09/18 | 445 | NWL |
| HZMB 057 | | 2012/09/18 | 440 | NWL |
| LIZMD OFF | | 2012/09/18 | 442 | NWL |
| HZMB 056 | | 2012/09/05 | 433 | NEL |
| HZMB 055 | | 2012/09/04 | 425 | NWL |
| | | 2016/05/12 | 1238 | NWL |
| | | 2015/12/01 | 1180 | NWL |
| | | 2015/04/20 | 1097 | NWL |
| | | 2015/01/15 | 1062 | NWL |
| HZMB 054 | CH34 | 2014/05/31 | 953 | NWL |
| | | 2014/01/06 | 888 | NWL |
| | | 2013/11/07 | 854 | NWL |
| | | 2013/11/02 | 845 | NWL |
| | | 2013/10/24 | 831 | NWL |

| Identification Number | Baseline Identification Number | Date (YYYY- MM-DD) | Sighting Number | Area Sighted |
|-----------------------|--------------------------------------|-----------------------|-----------------|--------------|
| | | 2013/08/30 | 780 | NEL |
| | | 2013/07/08 | 711 | NWL |
| | | 2013/09/18 | 448 | NWL |
| | | 2012/09/05 | 432 | NEL |
| | | 2011/11/07 | Baseline | NWL |
| | | 2011/11/05 | Baseline | NWL |
| | | 2011/11/02 | Baseline | NWL |
| | | 2011/11/01 | Baseline | NEL |
| | | 2011/11/01 | Baseline | NEL |
| | | 2011/10/28 | Baseline | NWL |
| | | 2011/10/06 | Baseline | NWL |
| HZMB 053 | | 2012/09/04 | 425 | NWL |
| HZMB 052 | | 2012/09/04 | 423 | NWL |
| | | 2015/05/11 | 1104 | NWL |
| | | 2014/08/04 | 989 | NWL |
| | | 2013/05/09 | 644 | NWL |
| | | 2013/04/01 | 622 | NWL |
| HZMB 051 | NL213 | 2013/02/15 | 582 | NWL |
| | | 2013/02/15 | 581 | NWL |
| | | 2013/01/28 | 559 | NWL |
| | | 2013/01/28 | 556 | NWL |
| | | 2012/09/04 | 422 | NWL |
| | | 2014/07/14 | 971 | NWL |
| | | 2014/01/10 | 900 | NWL |
| HZMB 050 | | 2014/01/06 | 888 | NWL |
| | | 2013/02/15 | 579 | NWL |
| | | 2012/09/04 | 421 | NWL |
| | | 2015/10/09 | 1151 | NWL |
| HZMB 049 | | 2014/07/29 | 982 | NWL |
| | | 2012/09/03 | 419 | NWL |
| HZMB 048 | | 2012/09/03 | 419 | NWL |
| LIZMD 047 | | 2015/04/28 | 1100 | NWL |
| HZMB 047 | | 2012/09/03 | 412 | NWL |
| HZMB 046 | | 2012/09/03 | 412 | NWL |
| | | 2016/05/23 | 1249 | NWL |
| LIZMD 045 | | 2014/02/17 | 910 | NWL |
| HZMB 045 | | 2013/06/13 | 682 | NWL |
| | | 2013/02/15 | 579 | NWL |

| Identification Number | Baseline Identification Number | Date (YYYY- MM-DD) | Sighting Number | Area Sighted |
|-----------------------|--------------------------------------|-----------------------|-----------------|--------------|
| | | 2012/11/01 | 495 | NWL |
| | | 2016/05/23 | 1247 | NWL |
| | | 2016/01/18 | 1194 | NWL |
| | | 2014/10/13 | 1019 | NWL |
| | | 2014/02/17 | 910 | NWL |
| | | 2013/12/19 | 864 | NWL |
| | | 2013/11/02 | 845 | NWL |
| | | 2013/11/01 | 842 | NWL |
| | | 2013/10/15 | 819 | NWL |
| LIZMD 044 | NII OO | 2013/05/09 | 648 | NWL |
| HZMB 044 | NL98 | 2013/05/09 | 647 | NWL |
| | | 2013/04/01 | 623 | NWL |
| | | 2013/04/01 | 621 | NWL |
| | | 2013/02/15 | 579 | NWL |
| | | 2012/11/01 | 495 | NWL |
| | | 2011/11/07 | Baseline | NWL |
| | | 2011/11/06 | Baseline | NEL |
| | | 2011/11/01 | Baseline | NEL |
| | | 2011/10/06 | Baseline | NEL |
| HZMB 043 | | 2012/09/03 | 407 | NWL |
| | | 2015/10/22 | 1156 | NWL |
| 117MD 040 | NII 000 | 2013/12/19 | 863 | NWL |
| HZMB 042 | NL260 | 2012/11/01 | 495 | NWL |
| | | 2011/11/07 | Baseline | NWL |
| | | 2014/06/05 | 960 | NEL |
| | | 2014/02/17 | 910 | NWL |
| | | 2013/11/02 | 845 | NWL |
| | | 2013/05/09 | 648 | NWL |
| | | 2013/05/09 | 647 | NWL |
| | | 2013/04/01 | 623 | NWL |
| HZMB 041 | NL24 | 2013/04/01 | 621 | NWL |
| | | 2013/02/15 | 579 | NWL |
| | | 2012/11/01 | 495 | NWL |
| | | 2011/11/06 | Baseline | NEL |
| | | 2011/11/05 | Baseline | NWL |
| | | 2011/11/05 | Baseline | NWL |
| | | 2011/10/10 | Baseline | NWL |
| HZMB 040 | | 2014/02/17 | 910 | NWL |

| Identification Number | Baseline Identification Number | Date (YYYY- MM-DD) | Sighting Number | Area Sighted |
|-----------------------|--------------------------------------|-----------------------|-----------------|--------------|
| | | 2014/01/06 | 893 | NWL |
| | | 2013/10/15 | 821 | NWL |
| | | 2013/07/08 | 714 | NWL |
| | | 2013/07/08 | 711 | NWL |
| | | 2013/02/21 | 589 | NWL |
| | | 2012/11/01 | 493 | NWL |
| U7MD 020 | | 2016/05/23 | 1246 | NWL |
| HZMB 038 | | 2012/11/01 | 490 | NWL |
| HZMB 037 | | 2012/11/01 | 490 | NWL |
| LIZMD 000 | | 2012/09/03 | 407 | NWL |
| HZMB 036 | | 2012/11/01 | 490 | NWL |
| LIZMD 005 | | 2013/02/15 | 579 | NWL |
| HZMB 035 | | 2012/11/01 | 490 | NWL |
| HZMB 034 | | 2012/11/01 | 493 | NWL |
| | | 2014/11/17 | 1035 | NWL |
| HZMB 028 | | 2013/04/01 | 625 | NWL |
| | | 2012/08/06 | 373 | NWL |
| | | 2013/12/19 | 863 | NWL |
| | | 2013/02/15 | 579 | NWL |
| HZMB 027 | | 2013/01/28 | 568 | NWL |
| | | 2013/01/28 | 564 | NWL |
| | | 2012/06/14 | 299 | NWL |
| | | 2014/10/13 | 1018 | NWL |
| | | 2013/06/25 | 697 | NWL |
| HZMB 026 | | 2013/05/09 | 642 | NWL |
| | | 2013/01/28 | 561 | NWL |
| | | 2012/06/13 | 295 | NEL |
| | | 2013/02/22 | 596 | NEL |
| | | 2013/02/21 | 591 | NWL |
| HZMB 025 | | 2012/12/06 | 525 | NEL |
| | | 2012/10/11 | 457 | NWL |
| | | 2012/06/13 | 295 | NEL |
| 117MD 004 | | 2013/03/18 | 601 | NWL |
| HZMB 024 | | 2012/06/13 | 295 | NEL |
| | | 2015/10/09 | 1153 | NWL |
| | | 2015/10/09 | 1152 | NWL |
| HZMB 023 | | 2015/04/20 | 1097 | NWL |
| | | 2014/12/18 | 1044 | NWL |

| Identification Number | Baseline Identification Number | Date (YYYY- MM-DD) | Sighting Number | Area Sighted |
|-----------------------|--------------------------------------|-----------------------|-----------------|--------------|
| | | 2014/11/17 | 1035 | NWL |
| | | 2014/01/06 | 888 | NWL |
| | | 2013/07/08 | 715 | NWL |
| | | 2013/07/08 | 711 | NWL |
| | | 2013/04/01 | 619 | NWL |
| | | 2013/02/21 | 589 | NWL |
| | | 2013/02/15 | 579 | NWL |
| | | 2012/07/10 | 330 | NWL |
| | | 2016/04/21 | 1219 | NWL |
| | | 2015/09/07 | 1143 | NWL |
| | | 2015/04/20 | 1097 | NWL |
| | | 2014/12/18 | 1044 | NWL |
| | | 2014/11/17 | 1035 | NWL |
| | | 2014/08/04 | 991 | NWL |
| 117NAD 000 | | 2014/01/06 | 888 | NWL |
| HZMB 022 | | 2013/10/24 | 827 | NWL |
| | | 2013/07/08 | 715 | NWL |
| | | 2013/07/08 | 711 | NWL |
| | | 2013/04/01 | 619 | NWL |
| | | 2013/02/21 | 589 | NWL |
| | | 2013/02/15 | 579 | NWL |
| | | 2012/07/10 | 330 | NWL |
| | | 2016/03/22 | 1215 | NWL |
| HZMB 021 | NL37 | 2012/07/10 | 330 | NWL |
| | | 2011/09/16 | Baseline | NWL |
| HZMB 020 | | 2012/07/10 | 330 | NWL |
| HZMB 019 | | 2012/07/10 | 330 | NWL |
| | | 2014/02/17 | 910 | NWL |
| | | 2013/05/09 | 647 | NWL |
| HZMB 018 | | 2013/02/21 | 594 | NEL |
| | | 2012/12/10 | 529 | NEL |
| | | 2012/07/10 | 330 | NWL |
| HZMB 017 | | 2012/07/10 | 330 | NWL |
| | | 2013/07/08 | 706 | NWL |
| | | 2012/12/11 | 539 | NWL |
| HZMB 016 | | 2012/09/18 | 446 | NWL |
| | | 2012/09/04 | 421 | NWL |
| | | 2012/07/10 | 330 | NWL |

| Identification Number | Baseline Identification Number | Date (YYYY- MM-DD) | Sighting Number | Area Sighted |
|-----------------------|--------------------------------------|-----------------------|-----------------|--------------|
| HZMB 015 | | 2012/07/10 | 330 | NEL |
| | | 2015/08/25 | 1139 | NWL |
| | | 2013/12/26 | 880 | NWL |
| | | 2012/08/06 | 373 | NWL |
| HZMB 014 | NL176 | 2012/06/13 | 295 | NEL |
| | | 2011/11/06 | Baseline | NEL |
| | | 2011/11/01 | Baseline | NEL |
| | | 2011/11/01 | Baseline | NEL |
| HZMB 013 | | 2012/05/28 | 281 | NWL |
| HZMB 012 | | 2012/05/28 | 281 | NWL |
| | | 2013/02/22 | 597 | NEL |
| | | 2013/02/21 | 592 | NEL |
| | | 2013/02/14 | 572 | NEL |
| 117140 044 | F1 04 | 2012/11/06 | 517 | NEL |
| HZMB 011 | EL01 | 2012/09/19 | 452 | NWL |
| | | 2012/03/31 | 261 | NEL |
| | | 2011/11/02 | Baseline | NWL |
| | | 2011/11/01 | Baseline | NEL |
| | | 2015/03/19 | 1084 | NWL |
| HZMB 009 | | 2012/05/28 | 281 | NWL |
| 11714D 000 | | 2015/07/06 | 1122 | NWL |
| HZMB 008 | | 2012/05/28 | 281 | NWL |
| | | 2012/12/10 | 529 | NEL |
| HZMB 007 | NL246 | 2011/11/06 | Baseline | NEL |
| | | 2011/09/16 | Baseline | NWL |
| | | 2015/10/22 | 1158 | NWL |
| | | 2013/02/21 | 594 | NEL |
| HZMB 006 | | 2012/12/11 | 539 | NWL |
| | | 2012/11/01 | 495 | NWL |
| | | 2012/03/29 | 250 | NWL |
| | | 2015/02/09 | 1070 | NWL |
| | | 2015/02/09 | 1069 | NWL |
| | | 2013/11/09 | 860 | NWL |
| LIZMD 005 | | 2013/11/07 | 858 | NWL |
| HZMB 005 | | 2013/10/15 | 813 | NWL |
| | | 2012/12/10 | 532 | NWL |
| | | 2012/08/06 | 374 | NWL |
| | | 2012/05/28 | 287 | NWL |

| Identification Number | Baseline Identification Number | Date (YYYY- MM-DD) | Sighting Number | Area Sighted |
|-----------------------|--------------------------------------|-----------------------|-----------------|--------------|
| | | 2015/07/28 | 1126 | NWL |
| HZMB 004 | | 2012/09/04 | 421 | NWL |
| | | 2012/03/31 | 262 | NWL |
| | | 2013/10/15 | 812 | NWL |
| | | 2013/06/25 | 697 | NWL |
| 117MD 000 | NI 470 | 2012/12/10 | 529 | NEL |
| HZMB 003 | NL179 | 2012/03/31 | 261 | NWL |
| | | 2011/11/06 | Baseline | NEL |
| | | 2011/09/16 | Baseline | NWL |
| | | 2014/05/31 | 951 | NWL |
| | | 2013/12/26 | 878 | NWL |
| | | 2013/12/19 | 863 | NWL |
| | | 2013/11/01 | 839 | NWL |
| | | 2013/10/15 | 819 | NWL |
| | | 2013/09/24 | 798 | NWL |
| 117MD 000 | WL111 | 2013/02/14 | 573 | NWL |
| HZMB 002 | | 2012/12/11 | 536 | NWL |
| | | 2012/12/11 | 535 | NWL |
| | | 2012/10/12 | 466 | NWL |
| | | 2012/10/24 | 475 | NWL |
| | | 2012/05/28 | 281 | NWL |
| | | 2012/03/29 | 250 | NWL |
| | | 2011/11/02 | Baseline | NWL |
| | | 2016/07/18 | 1276 | NWL |
| | | 2016/05/23 | 1251 | NWL |
| | | 2014/08/25 | 997 | NWL |
| LIZMD 004 | \\\\\\ 4C | 2013/08/21 | 771 | NWL |
| HZMB 001 | WL46 | 2013/06/13 | 681 | NWL |
| | | 2013/04/01 | 617 | NWL |
| | | 2013/02/14 | 573 | NWL |
| | | 2012/03/29 | 250 | NWL |
| | CH98 | 2011/11/02 | Baseline | NWL |
| | NII 44 | 2011/11/02 | Baseline | NWL |
| | NL11 | 2011/11/07 | Baseline | NWL |
| | NL12 | 2011/11/02 | Baseline | NWL |
| | | 2011/09/23 | Baseline | NWL |
| | NL33 | 2011/11/01 | Baseline | NEL |
| | | 2011/11/05 | Baseline | NWL |

| Identification Number | Baseline Identification Number | Date (YYYY- MM-DD) | Sighting Number | Area Sighted |
|-----------------------|--------------------------------------|-----------------------|-----------------|--------------|
| | | 2011/11/07 | Baseline | NWL |
| | NL46 | 2011/10/28 | Baseline | NWL |
| | CH153 | 2011/10/11 | Baseline | NWL |
| | | 2001/11/07 | Baseline | NWL |
| | NL48 | 2011/11/02 | Baseline | NWL |
| | | 2011/09/16 | Baseline | NWL |
| | | 2011/09/16 | Baseline | NWL |
| | NL75 | 2011/09/16 | Baseline | NWL |
| | | 2011/11/01 | Baseline | NEL |
| | NL80 | 2011/11/02 | Baseline | NWL |
| | NL118 | 2011/09/06 | Baseline | NWL |
| | NL120 | 2011/11/06 | Baseline | NEL |
| | INLIZU | 2011/10/10 | Baseline | NWL |
| | | 2011/11/06 | Baseline | NEL |
| | NL123 | 2011/10/10 | Baseline | NWL |
| | | 2011/10/06 | Baseline | NWL |
| | | 2011/11/01 | Baseline | NEL |
| | NL139 | 2011/10/10 | Baseline | NEL |
| | | 2011/09/16 | Baseline | NWL |
| | NL165 | 2011/11/05 | Baseline | NWL |
| | INLIOS | 2011/11/02 | Baseline | NWL |
| | NL170 | 2011/10/06 | Baseline | NEL |
| | | 2011/11/07 | Baseline | NWL |
| | NL188 | 2011/11/01 | Baseline | NWL |
| | | 2011/10/28 | Baseline | NWL |
| | NL191 | 2011/09/07 | Baseline | NWL |
| | NI 202 | 2011/11/07 | Baseline | NWL |
| | NL202 | 2011/10/28 | Baseline | NWL |
| | | 2011/11/07 | Baseline | NWL |
| | NL210 | 2011/11/05 | Baseline | NWL |
| | INLZIU | 2011/11/02 | Baseline | NWL |
| | | 2011/09/07 | Baseline | NWL |
| | | 2011/11/05 | Baseline | NWL |
| | NL214 | 2011/11/02 | Baseline | NWL |
| | | 2011/10/28 | Baseline | NWL |
| | NL220 | 2011/10/10 | Baseline | NEL |
| | NL224 | 2011/10/28 | Baseline | NWL |
| | NL226 | 2011/11/05 | Baseline | NWL |

| Identification Number | Baseline Identification Number | Date (YYYY- MM-DD) | Sighting Number | Area Sighted |
|-----------------------|--------------------------------------|-----------------------|-----------------|--------------|
| | | 2011/10/17 | Baseline | WL |
| | NL230 | 2011/11/02 | Baseline | NWL |
| | INLZSU | 2011/10/17 | Baseline | WL |
| | | 2011/10/28 | Baseline | NWL |
| | NL233 | 2011/10/06 | Baseline | NWL |
| | | 2011/09/16 | Baseline | NWL |
| | | 2011/11/07 | Baseline | NWL |
| | NL241 | 2011/11/02 | Baseline | NWL |
| | | 2011/09/16 | Baseline | NWL |
| | | 2011/11/01 | Baseline | NEL |
| | NL244 | 2011/11/01 | Baseline | NWL |
| | | 2011/09/05 | Baseline | WL |
| | NL256 | 2011/11/02 | Baseline | NWL |
| | NII OEO | 2011/09/16 | Baseline | NWL |
| | NL258 | 2011/09/05 | Baseline | WL |
| | NL259 | 2011/11/07 | Baseline | NWL |
| | NL261 | 2011/11/01 | Baseline | NEL |
| | | 2011/11/06 | Baseline | NEL |
| | NL264 | 2011/10/06 | Baseline | NEL |
| | | 2011/09/23 | Baseline | NWL |
| | NL269 | 2011/11/02 | Baseline | NWL |
| | | 2011/11/05 | Baseline | NWL |
| | NII 070 | 2011/11/02 | Baseline | NWL |
| | NL272 | 2011/10/28 | Baseline | NWL |
| | | 2011/09/16 | Baseline | NWL |
| | NL278 | 2011/11/02 | Baseline | NWL |
| | NL279 | 2011/11/02 | Baseline | NWL |
| | SL42 | 2011/11/02 | Baseline | NWL |
| | SL43 | 2011/10/28 | Baseline | NWL |
| | | 2011/11/05 | Baseline | NWL |
| | | 2011/11/02 | Baseline | NWL |
| | WL04 | 2011/10/17 | Baseline | WL |
| | 1.20. | 2011/10/10 | Baseline | NWL |
| | | 2011/09/16 | Baseline | NWL |
| | W 05 | 2011/11/01 | Baseline | NEL |
| | WL05 | 2011/11/01 | Baseline | NEL |
| | WL11 | 2011/11/07 | Baseline | NWL |
| | WL25 | 2011/10/17 | Baseline | WL |

| Identification Number | Baseline Identification Number | Date (YYYY- MM-DD) | Sighting Number | Area Sighted |
|-----------------------|--------------------------------------|-----------------------|-----------------|--------------|
| | | 2011/09/23 | Baseline | WL |
| | | 2011/09/16 | Baseline | NWL |
| | \\/I 00 | 2011/11/02 | Baseline | WL |
| | WL88 | 2011/09/16 | Baseline | NWL |
| | WL116 | 2011/09/16 | Baseline | NWL |
| | WL124 | 2011/11/02 | Baseline | NWL |
| | VVI 456 | 2011/10/28 | Baseline | NWL |
| | WL156 | 2011/09/23 | Baseline | WL |
| | WL162 | 2011/09/16 | Baseline | NWL |
| | NL275 | 2011/09/23 | Baseline | WL |
| | | 2011/11/02 | Baseline | WL |
| | SL48 | 2011/10/17 | Baseline | WL |
| | | 2011/09/23 | Baseline | WL |
| | 01400 | 2011/11/02 | Baseline | WL |
| | CH108 | 2011/11/02 | Baseline | WL |
| | CH157 | 2011/11/02 | Baseline | WL |
| | NL206 | 2011/10/07 | Baseline | WL |
| | WL28 | 2011/09/23 | Baseline | WL |
| | 14// 40 | 2011/11/02 | Baseline | WL |
| | WL42 | 2011/09/05 | Baseline | WL |
| | WL47 | 2011/10/17 | Baseline | WL |
| | 14// 04 | 2011/10/17 | Baseline | WL |
| | WL61 | 2011/09/23 | Baseline | WL |
| | WL66 | 2011/11/07 | Baseline | WL |
| | 14// 00 | 2011/09/05 | Baseline | WL |
| | WL68 | 2011/09/05 | Baseline | WL |
| | | 2011/11/02 | Baseline | WL |
| | WL72 | 2011/11/02 | Baseline | WL |
| | | 2011/09/23 | Baseline | WL |
| | WL87 | 2011/09/23 | Baseline | WL |
| | 14// 00 | 2011/11/02 | Baseline | WL |
| | WL88 | 2011/09/16 | Baseline | WL |
| | WL116 | 2011/09/16 | Baseline | WL |
| | 14/1 440 | 2011/11/02 | Baseline | WL |
| | WL118 | 2011/11/02 | Baseline | WL |
| | WL123 | 2011/11/02 | Baseline | WL |
| | WL124 | 2011/11/02 | Baseline | WL |
| | WL128 | 2011/11/07 | Baseline | WL |

| Identification Number | Baseline Identification Number | Date (YYYY- MM-DD) | Sighting Number | Area Sighted |
|-----------------------|--------------------------------------|-----------------------|-----------------|--------------|
| | | 2011/11/02 | Baseline | WL |
| | | 2011/11/02 | Baseline | WL |
| | WL131 | 2011/11/02 | Baseline | WL |
| | | 2011/09/23 | Baseline | WL |
| | WL132 | 2011/09/23 | Baseline | WL |
| | WL137 | 2011/11/02 | Baseline | WL |
| | WL138 | 2011/11/02 | Baseline | WL |
| | WL144 | 2011/11/02 | Baseline | WL |
| | WL145 | 2011/09/05 | Baseline | WL |
| | WL146 | 2011/10/17 | Baseline | WL |
| | WL153 | 2011/11/07 | Baseline | WL |
| | WL157 | 2011/09/23 | Baseline | WL |
| | WL158 | 2011/09/23 | Baseline | WL |
| | WL163 | 2011/11/07 | Baseline | WL |
| | VVL 103 | 2011/11/02 | Baseline | WL |
| | WL165 | 2011/10/17 | Baseline | WL |
| | WL167 | 2011/10/17 | Baseline | WL |
| | WL170 | 2011/11/07 | Baseline | WL |
| | WL171 | 2011/10/28 | Baseline | WL |

Appendix L – Event Action Plan

Event / Action Plan for Air Quality

| Event | | Action | n | |
|--|---|--|--|--|
| | ET Leader | IEC | ER | Contractor |
| Action Level | | | | |
| Exceedance for one sample | Identify source, investigate the causes of exceedance and propose remedial measures; Inform IEC and ER; Repeat measurement to confirm finding; Increase monitoring frequency to daily. | Check monitoring data submitted by ET; Check Contractor's working method. | 1. Notify Contractor. | Rectify any unacceptable practice; Amend working methods if appropriate. |
| Exceedance for two or more consecutive samples | Identify source; Inform IEC and ER; Advise the ER on the effectiveness of the proposed remedial measures; Repeat measurements to confirm findings; Increase monitoring frequency to daily; Discuss with IEC and Contractor on remedial actions required; If exceedance continues, arrange meeting with IEC and ER; If exceedance stops, cease additional monitoring. | Check monitoring data submitted by ET; Check Contractor's working method; Discuss with ET and Contractor on possible remedial measures; Advise the ER on the effectiveness of the proposed remedial measures; Supervise Implementation of remedial measures. | Confirm receipt of notification of failure in writing; Notify Contractor; Ensure remedial measures properly implemented. | 1. Submit proposals for remedial to ER within 3 working days of notification; 2. Implement the agreed proposals; 3. Amend proposal if appropriate. |

| Event | Action | | | | |
|---------------------------|--|------------------------|--|--|--|
| | ET Leader | IEC | ER | Contractor | |
| Limit Level | | | | | |
| Exceedance for one sample | Identify source, investigate the causes of exceedance and propose remedial measures; Inform ER, Contractor and EPD; Repeat measurement to confirm finding; Increase monitoring frequency to daily; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results. | Contractor on possible | Confirm receipt of notification of failure in writing; Notify Contractor; Ensure remedial measures properly implemented. | Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC within 3 working days of notification; Implement the agreed proposals; Amend proposal if appropriate. | |

| Event | Action | | | | |
|---------|--|---|---|--|--|
| | ET Leader | IEC | ER | Contractor | |
| samples | Notify IEC, ER, Contractor and EPD; Identify source; Repeat measurement to confirm findings; Increase monitoring frequency to daily; Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; Arrange meeting with IEC and ER to discuss the remedial actions to be taken; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; If exceedance stops, cease additional monitoring. | Discuss amongst ER, ET, and Contractor on the potential remedial actions; Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; Supervise the implementation of remedial measures. | Confirm receipt of notification of failure in writing; Notify Contractor; In consultation with the IEC, agree with the Contractor on the remedial measures to be implemented; Ensure remedial measures properly implemented; If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated. | proposals; 4. Resubmit proposals if problem still not under control; 5. Stop the relevant portion of works as determined by the ER until the exceedance is | |

Event / Action Plan for Construction Noise

| Event | | Action | 1 | |
|-----------------|--|--|---|--|
| | ET Leader | IEC | ER | Contractor |
| Action Level | Notify IEC and Contractor; Identify source, investigate the causes of exceedance and propose remedial measures; Report the results of investigation to the IEC, ER and Contractor; Discuss with the Contractor and formulate remedial measures; Increase monitoring frequency to check mitigation effectiveness. | Review the analysed results submitted by the ET; Review the proposed remedial measures by the Contractor and advise the ER accordingly; Supervise the implementation of remedial measures. | Confirm receipt of notification of failure in writing; Notify Contractor; Require Contractor to propose remedial measures for the analysed noise problem; Ensure remedial measures are properly implemented. | Submit noise mitigation proposals to IEC; Implement noise mitigation proposals. |
| Limit Level | Inform IEC, ER, EPD and Contractor; Identify source; Repeat measurements to confirm findings; Increase monitoring frequency; Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; Inform IEC, ER and EPD the causes and actions taken for the exceedances; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; If exceedance stops, cease additional monitoring. | Discuss amongst ER, ET, and Contractor on the potential remedial actions; Review Contractors remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; Supervise the implementation of remedial measures. | notification of failure in writing; 2. Notify Contractor; 3. Require Contractor to propose remedial measures for the analysed noise problem; | Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC within 3 working days of notification; Implement the agreed proposals; Resubmit proposals if problem still not under control; Stop the relevant portion of works as determined by the ER until the exceedance is abated. |

Event / Action Plan for Water Quality

| Event | Action | | | | |
|---|---|---|---|---|--|
| | ET Leader | IEC | ER | Contractor | |
| Action level being exceeded by one sampling day | Repeat in situ measurement to confirm findings; Identify source(s) of impact; Inform IEC, contractor and ER; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC, ER and Contractor; Ensure mitigation measures are implemented; Repeat measurement on next day of exceedance to confirm findings. | Check monitoring data submitted by ET and Contractor's working methods; Discuss with ET and Contractor on possible remedial actions; Review the proposed mitigation measures submitted by Contractor and advise the ER accordingly; Assess the effectiveness of the implemented mitigation measures. | Confirm receipt of notification of non-compliance in writing; Discuss with IEC on the proposed mitigation measures; Make agreement on mitigation measures to be implemented; Ensure mitigation measures are properly implemented. | Inform the ER and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment and consider changes of working methods; Discuss with ET and IEC on possible remedial actions and propose mitigation measures to IEC and ER; Implement the agreed mitigation measures. Amend working methods if appropriate. | |

| Event | Action | | | |
|---|--|--|--|---|
| | ET Leader | IEC | ER | Contractor |
| Action level being exceeded by two or more consecutiv e sampling days | 4. Check monitoring data, all plant, equipment and Contractor's working methods; 5. Discuss mitigation measures with IEC, ER and Contractor; 6. Ensure mitigation measures are | Check monitoring data submitted by ET and Contractor's working method; Discuss with ET and Contractor on possible remedial actions; Review the proposed mitigation measures submitted by Contractor and advise the ER accordingly; Assess the effectiveness of the implemented mitigation measures. | Confirm receipt of notification of non-compliance in writing; Discuss with IEC on the proposed mitigation measures; Make agreement on mitigation measures to be implemented; Ensure mitigation measures are properly implemented; Assess the effectiveness of the implemented mitigation measures. | Inform the Engineer and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment and consider changes of working methods; Discuss with ET and IEC on possible remedial actions and propose mitigation measures to IEC and ER within 3 working days of notification; Implement the agreed mitigation measures; Amend working methods if appropriate. |

| Event | Action | | | |
|--|--|---|--|---|
| | ET Leader | IEC | ER | Contractor |
| Limit level being exceeded by one sampling day | Repeat <i>in-situ</i> measurement to confirm findings; Identify source(s) of impact; Inform IEC, Contractor, ER and EPD; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC, ER and Contractor; Ensure mitigation measures are implemented; Increase the monitoring frequency to daily until no exceedance of Limit level. | Check monitoring data submitted by ET and Contractor's working method; Discuss with ET and Contractor on possible remedial actions; Review the proposed mitigation measures submitted by Contractor and advise the ER accordingly; Assess the effectiveness of the implemented mitigation measures. | Confirm receipt of notification of failure in writing; Discuss with IEC, ET and Contractor on the proposed mitigation measures; Request Contractor to critically review the working methods; Ensure mitigation measures are properly implemented; Assess the effectiveness of the implemented mitigation measures. | Inform the ER and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment and consider changes of working methods; Submit proposal of mitigation measures to ER within 3 working days of notification and discuss with ET, IEC and ER; Implement the agreed mitigation measures; Amend working methods if appropriate. |

| Event | Action | | | |
|-----------------------------------|---|---|--|--|
| | ET Leader | IEC | ER | Contractor |
| or more consecutive sampling days | Repeat <i>in-situ</i> measurement to confirm findings; Identify source(s) of impact; Inform IEC, contractor, ER and EPD; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC, ER and Contractor; Ensure mitigation measures are implemented; Increase the monitoring frequency to daily until no exceedance of Limit level for two consecutive days. | Check monitoring data submitted by ET and Contractor's working method; Discuss with ET and Contractor on possible remedial actions; Review the Contractor's mitigation measures whenever necessary to assure their effectiveness and advise the ER accordingly. | Confirm receipt of notification of failure in writing; Discuss with IEC, ET and Contractor on the proposed mitigation measures; Request Contractor to critically review the working methods; Make agreement on the mitigation measures to be implemented; Ensure mitigation measures are properly implemented; Assess the effectiveness of the implemented mitigation measures; Consider and instruct, if necessary, the Contractor to slow down or to stop all or part of the construction activities until no exceedance of Limit level. | Inform the ER and confirm notification of the non-compliance in writing; Take immediate action to avoid further exceedance; Rectify unacceptable practice; Check all plant and equipment and consider changes of working methods; Submit proposal of mitigation measures to ER within 3 working days of notification and discuss with ET, IEC and ER; Implement the agreed mitigation measures; Resubmit proposals of mitigation measures if problem still not under control; As directed by the Engineer, to slow down or to stop all or part of the construction activities until no exceedance of Limit level. |

Event / Action Plan for Dolphin Monitoring

| Level 2. 3. 4. 5. 6. | ET Leader | IEC | ER / SOR | Contractor |
|----------------------|---|--|---|--|
| | Repeat statistical data analysis to confirm findings; Review all available and relevant data, including raw data and statistical analysis results of other parameters covered in the EM&A, to ascertain if differences are as a result of natural variation or previously observed seasonal differences; Identify source(s) of impact; Inform the IEC, ER/SOR and Contractor; Check monitoring data. Review to ensure all the dolphin protective measures are fully and properly implemented and advise on additional measures if necessary. | Check monitoring data submitted by ET and Contractor; Discuss monitoring results and finding with the ET and the Contractor. | 1. Discuss monitoring with the IEC and any other measures proposed by the ET; 2. If ER/SOR is satisfied with the proposal of any other measures, ER/SOR to signify the agreement in writing on the measures to be implemented. | Inform the ER/SOR and confirm notification of the non-compliance in writing; Discuss with the ET and the IEC and propose measures to the IEC and the ER/SOR; Implement the agreed measures. |
| Limit 1. | Repeat statistical data analysis to confirm findings; | Check monitoring data submitted by ET and | Attend the meeting to discuss with ET, IEC and Contractor | Inform the ER/SOR and confirm notification of the |
| 3. 4. 5. | 2. Review all available and relevant data, including raw data and statistical analysis results of other parameters covered in the EM&A, to ascertain if differences are as a result of natural variation or previously observed seasonal differences; 3. Identify source(s) of impact; 4. Inform the IEC, ER/SOR and Contractor of findings; | Contractor; 2. Discuss monitoring results and findings with the ET and the Contractor; 3. Attend the meeting to discuss with ET, ER/SOR and Contractor the necessity of additional dolphin monitoring and any other potential mitigation measures. 4. Review proposals for additional monitoring and any other mitigation measures submitted by ET and Contractor and | the necessity of additional dolphin monitoring and any other potential mitigation measures. 2. If ER/SOR is satisfied with the proposals for additional dolphin monitoring and/or any other mitigation measures submitted by ET and Contractor and verified by IEC, ER/SOR to signify the agreement in writing on such proposals and any other mitigation measures. 3. Supervise the implementation | non-compliance in writing; 2. Attend the meeting to discuss with ET, IEC and ER/SOR the necessity of additional dolphin monitoring and any other potential mitigation measures. 3. Jointly submit with ET to IEC a proposal of additional dolphin monitoring and/or any other mitigation measures when necessary. 4. Implement the agreed additional dolphin monitoring and/or any other mitigation |

| dolphin protective measures are fully and properly implemented and advise on additional measures if necessary. 7. If ET proves that the source of impact is caused by any of the construction activity by the works contract, ET to arrange a meeting to discuss with IEC, ER/SOR and Contractor the necessity of additional dolphin monitoring and/or any other potential mitigation measures (e.g., consider to modify the perimeter silt curtain or consider to control/temporarily stop relevant construction activity etc.) and submit to IEC a proposal of additional dolphin monitoring and/or mitigation | advise ER/SOR of the results and findings accordingly. 5. Supervise / Audit the implementation of additional monitoring and/or any other mitigation measures and advise ER/SOR the results and findings accordingly. | of additional monitoring and/or any other mitigation measures. | measures. |
|---|---|--|-----------|
| measures where necessary. | | | 1 |



China Harbour Engineering Company Limited

Monthly Summary Waste Flow Table for <u>August / 2016</u> (year)

Project: Hong Kong – Zhuhai – Macao Bridge, Hong Kong Boundary Crossing Facilities – Reclamation Works

Contract No.: HY/2010/02

| 110jcct . 11 | rong Rong Z | iluliai iviacao | Briage, mong | Rong Bound | ary Crossing | 5 Tuernties | rectamation | VOIRS | | | Contract 110 | 111/2010/02 |
|--------------|-----------------------------|--|---------------------------|---|--|----------------------------|---|--------------|----------------------------------|--------------------------|--------------------------------|--|
| | | Actual Quantities of Inert C&D Materials Generated Monthly | | | | | Actual Quantities of C&D Wastes Generated Monthly | | | | | |
| Month | Total Quantity Generated | Hard Rock and Large Broken Concrete (see Note 1) | Reused in the Contract | Reused in other Projects (see Note 5) | Surplus Surcharge exported to Macau (see Note 5) | Disposed as Public Fill | Imported Fill | Metals | Paper/ cardboard packaging | Plastics (see Note 2) | Chemical Waste (see Note 4) | Others, e.g. general refuse (see Note 3) |
| | (in '000m ³) | (in '000m ³) | (in '000m ³) | (in '000m ³) | (in '000m ³) | (in '000m ³) | (in '000m ³) | (in '000 kg) | (in '000kg) | (in '000kg) | (in '000kg) | (in '000 m ³) |
| Jan-16 | 0.0000 | 0.0000 | 0.0000 | 3.0720 | 0.0000 | 0.0000 | 52.4729 | 0.0000 | 0.2520 | 0.0000 | 0.8000 | 0.0520 |
| Feb-16 | 0.0000 | 0.0000 | 0.0000 | 6.3366 | 0.0000 | 0.0000 | 6.1333 | 0.0000 | 0.0000 | 6.0800 | 0.0000 | 0.0520 |
| Mar-16 | 0.0000 | 0.0000 | 0.0000 | 56.1071 | 0.0000 | 0.0000 | 38.3187 | 0.0000 | 0.3080 | 0.0000 | 0.0000 | 0.0520 |
| Apr-16 | 0.0000 | 0.0000 | 0.0000 | 47.2724 | 3.5710 | 0.0000 | 18.7380 | 0.0000 | 0.2240 | 0.0000 | 0.0000 | 0.3662 |
| May-16 | 0.0000 | 0.0000 | 0.0000 | 24.8600 | 93.8100 | 0.0000 | 45.2723 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0715 |
| Jun-16 | 0.0000 | 0.1560 | 0.0000 | 29.1938 | 96.1830 | 0.0000 | 27.8820 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0650 |
| Sub-total | 0.0000 | 0.1560 | 0.0000 | 166.8419 | 193.5640 | 0.0000 | 188.8172 | 0.0000 | 0.7840 | 6.0800 | 0.8000 | 0.6587 |
| Jul-16 | 0.0000 | 0.0000 | 0.0000 | 35.1267 | 137.7494 | 0.0000 | 54.3087 | 0.0000 | 0.4200 | 0.0000 | 0.0000 | 0.0715 |
| Aug-16 | 0.0000 | 0.0000 | 0.0000 | 30.0000 | 170.0000 | 0.0000 | 18.9587 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0455 |
| Sep-16 | | | | | | | | | | | | |
| Oct-16 | | | | | | | | | | | | |
| Nov-16 | | | | | | | | | | | | |
| Dec-16 | | | | | | | | | | | | |
| Total | 0.0000 | 0.1560 | 0.0000 | 231.9686 | 501.3134 | 0.0000 | 262.0846 | 0.0000 | 1.2040 | 6.0800 | 0.8000 | 0.7757 |

Notes:

- (1) Broken concrete for recycling into aggregates.
- (2) Plastics refer to plastic bottles / containers / sheets / foam / barrier from packaging materials.
- (3) Use the conversion factor: 1 full load of dumping truck being equivalent to 6.5m³ by volume.
- (4) Chemical waste refer to spent "battery" and "oil with water".
- (5) Subject to be revised

Appendix N

Cumulative Statistics on Exceedances, Complaints, Notifications of Summons and Successful Prosecutions

Cumulative statistics on Exceedances

| | | Total no. recorded in this | Total no. recorded since | | |
|--------------------|--------|----------------------------|--------------------------|--|--|
| | | month | project commencement | | |
| 1-Hour TSP | Action | - | - | | |
| | Limit | - | - | | |
| 24-Hour TSP | Action | - | - | | |
| | Limit | - | - | | |
| Noise | Action | - | - | | |
| | Limit | - | - | | |
| Water Quality | Action | - | 2 | | |
| | Limit | - | 3 | | |
| Dolphin Monitoring | Action | - | - | | |
| | Limit | - | - | | |

Remarks: Exceedances which are not project-related are not presented in this table.

Cumulative statistics on Complaints, Notifications of Summons and Successful Prosecutions

| | Date Received | Subject | Status | Total no. | Total no. |
|-----------------|---------------|---------|--------|-----------|--------------|
| | | | | in this | project |
| | | | | month | commencement |
| Environmental | | | | | |
| complaints | | | | | |
| | _ | _ | _ | _ | 36 |
| | _ | - | - | - | 30 |
| | | | | | |
| | | | | | |
| Notification of | _ | _ | _ | _ | 2 |
| summons | | _ | | - | |
| Successful | _ | _ | _ | _ | 2 |
| Prosecutions | _ | - | _ | - | 2 |